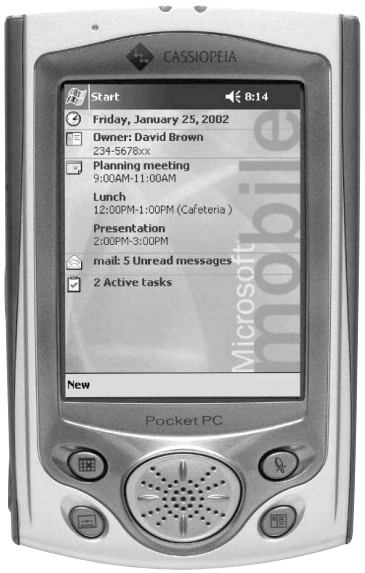
SERVICE MANUAL & PARTS LIST (without price)

Pocket PC

E-200

CASSIOPEIA

DEC. 2001



E-200

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CASIO®

Ver.1 MARCH/ 2002

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1. SPECIFICATIONS

Model: E-200
Display: 240 × 320 dots
TFT Color LCD (65,536 colors)
CPU: Intel® StrongARM Processor (206 MHz)
Memory: ROM 32 MB Flash ROM
RAM 64 MB
Interfaces: Serial: RS-232C, 115.2 kbps max.
Infrared: IrDA Ver. 1.2
Range: 20 cm max.
USB (Host/Client)
Card Slot: CompactFlash card, 3.3 V Type I / Type II
SD memory card/MultiMediaCard
Headphone jack: ø 3.5 mm stereo output
Accepts monaural earphone, stereo earphones/headphones.
Power Supply: Main: Rechargeable battery pack JK-214LT (Lithium-Ion battery)
AC adapter (AD-C54240E)
Backup: One CR2032 lithium battery
Power Consumption: 4.5 W
Approximate Battery Life (Normal Temperature)
Main: (Actual time may be shorter due to conditions when charging.)
12 hours: Continuous input and data display at a ratio of 1:10, front light off.

- Even when the unit is turned off, small amounts of power are required to retain memory contents, etc. This can cause batteries to go dead even when you do not use the unit.
- The actual amount of operation time that can be expected from batteries depends on operating conditions, settings, and other variables.

Backup: 5 years: Main battery is charged or replaced immediately after appearance of message to replace main battery.
1 week: No battery replacement after appearance of message to replace main battery.

Approximate Charge Time (Normal Temperature)
4 hours: Charge time is longer for the first charges after purchasing the unit or installing a new battery pack.
Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)
Charging Temperature: 10 °C to 35 °C (50 °F to 95 °F)
Dimensions: 17.5H × 82W × 130D mm (0.69 × 3.2 × 5.1 inch)
Weight: Approximately 190 g (6.7 oz)

- The TFT color LCD is a product of the latest color LCD manufacturing technology.
  However, virtually all TFT color LCDs have a very small number of pixels (about 0.01 % of the total number of pixels) that do not turn on or always remain turned on.
  This is normal and does not indicate malfunction.
- Playing back movies, digital camera images, and audio files consumes large amounts of power and may cause the unit to become warm to the touch. This is normal and does not indicate malfunction.
- Inserting or removing a Storage card while the unit is off causes power to turn on automatically. This is done so the unit can detect the card slot status.

2. OPTION

For Pocket PC 2002 CASSIOPEIA E-200

■ Battery & Power Adapter

AC Adapter

Attach it directly to the E-200 or to the E-200 cradle to provide power and recharge the batteries.

- **AD-C54240E**

Lithium Ion Rechargeable Battery

Keeps your E-200 colour screen powered for an extended period.
Adapts for both E-200 and PC Card Unit.

- **JK-214LT**

■ Communication

USB Cradle

Keep a spare in the office or home for convenient transfer of data.

- **JK-514CR**

USB Cable

Connecting CASSIOPEIA to PCs

- **JK-584CA**

RS 232C Cable (20pin to serial)

(**JK-744CV is needed)**
Connecting CASSIOPEIA to PCs

- **JK-580CA**

■ Others

20PIN/USB host Converter

Convert 32pin connector to 20pin and add USB host client.

- **JK-744CV**

Stylus

For your replacement, 2 styluses are included.

- **JK-824ST2**

Screen Protectors

Helps protect your screen from pen and pencil damage. 5 sheets are included.

- **JK-834PS5**

PC Card Unit

Accepts PCMCIA TYPE II Cards.

- **JK-864PU**

Stereo Earphone with Remote Control

For use with music, while reading E-mail and E-book with the remote control.

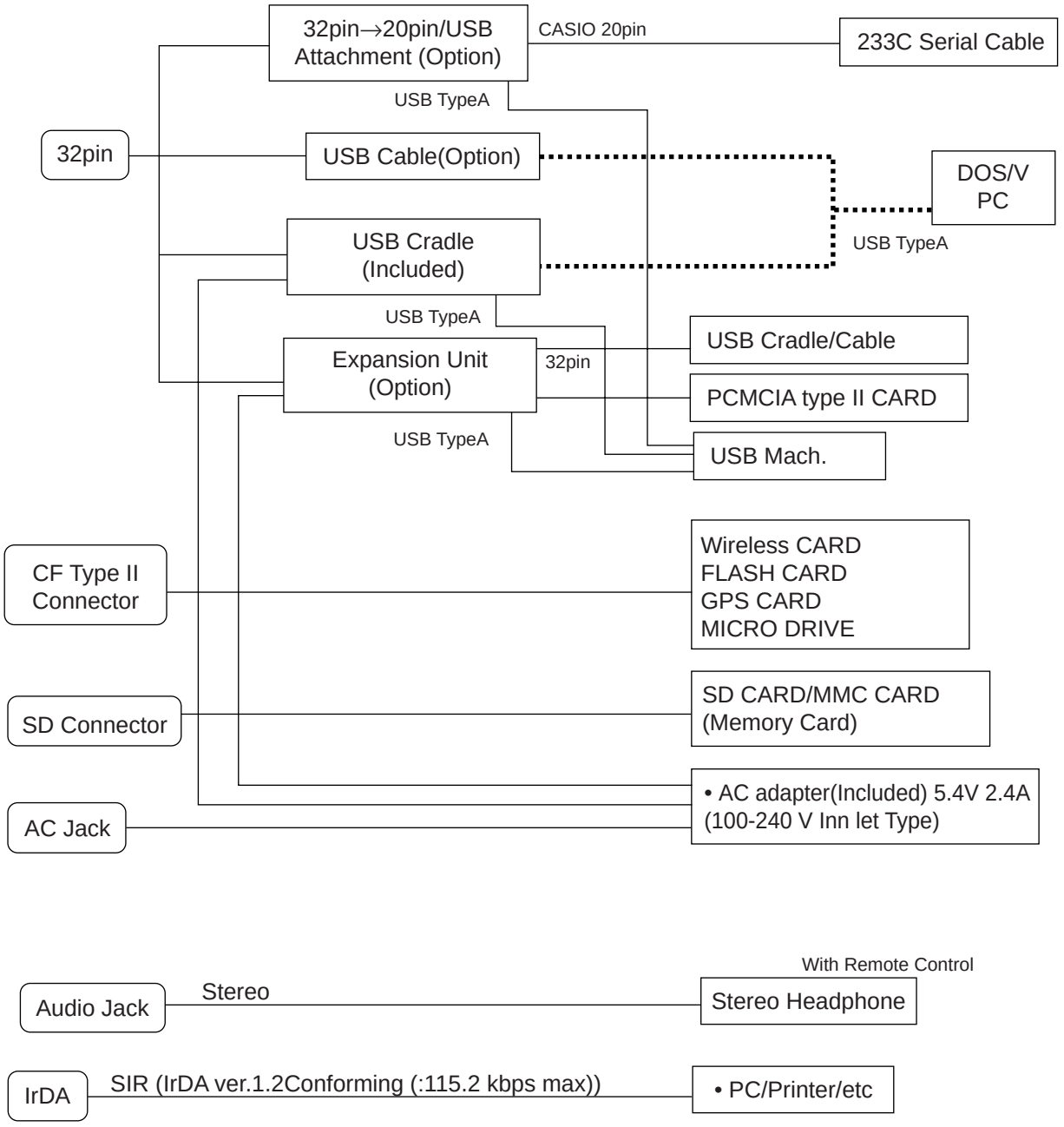
- **JK-840HE**

MultiMediaCard (MMC)

For your storage.

- **MMMB-32 (32MB)**
- **MMMB-16 (16MB)**

3. OPTION COMBINATION



4. Required System Configuration

The minimum system configuration required for running ActiveSync® 3.5 is described below.

Microsoft® ActiveSync® 3.5 System Requirements

Minimum Desktop Computer Requirements

- Microsoft® Windows® XP, Microsoft® Windows® 2000, Microsoft® Windows® Millennium Edition, Microsoft® Windows NT® Workstation 4.0 with SP 6 or later, or Microsoft® Windows 98
- Microsoft Outlook® 98 or later required for synchronization to the desktop or portable computer of e-mail, calendar, contacts, tasks, and notes. (Microsoft Outlook® 2002 recommended)
- Microsoft Internet Explorer 4.01 SP1 or later
- Hard disk drive with 12 to 65 MB of available hard disk space (actual requirements will vary based on selection of features and user's current system configuration)
- Available 9 or 25-pin communications port (adapter required for 25-pin communications port), infrared port, or USB port (available for Windows 98, Windows Millennium Edition, Windows 2000, Windows® XP only)
- One CD-ROM drive
- VGA graphics card or compatible video graphics adapter at 256 color or higher
- Keyboard
- Microsoft Mouse or compatible input device

Options for Windows® XP, Windows® 2000, Windows® Millennium Edition, Windows® NT Workstation 4.0, or Windows® 98

- Audio card/speakers for sound
- Microsoft Office 97, Microsoft Office 2000, or Microsoft Office XP
- Modem for remote synchronization
- Ethernet LAN connection for remote synchronization

Requirements for Microsoft Outlook® 2002

- Hard disk space requirements will vary depending on configuration; custom installation choices may require more or less hard disk space.
  - 245 MB of available hard disk space with 115 MB on the hard disk where the operating system is installed
- RAM requirements depend on the operating system used:
  - **Windows 98, or Windows 98 Second Edition**
    24 MB of RAM plus an additional 8 MB of RAM for each Office program running simultaneously
  - **Windows Millennium Edition, or Microsoft Windows NT**
    32 MB of RAM plus an additional 8 MB of RAM for each Office program running simultaneously
  - **Windows 2000 Professional**
    64 MB of RAM plus an additonal 8 MB of RAM for each Office program running simultaneously

Note

- Different minimum system requirements are required when using the applications included on the *CASSIOPEIA Applications CD-ROM*. See the documentation contained on the CD-ROM for full details.
- The cradle that comes with the unit is designed for USB connection only.
  If your computer does not have a USB port, necessary to purchase the separate 20Pin/USB host Converter (JK-744CV) and the serial connection cable (JK-580CA), which allow direct connection between the unit and connected computer's serial port.
- Certain computer hardware and/or software configurations may not allow PC Connect to run properly.

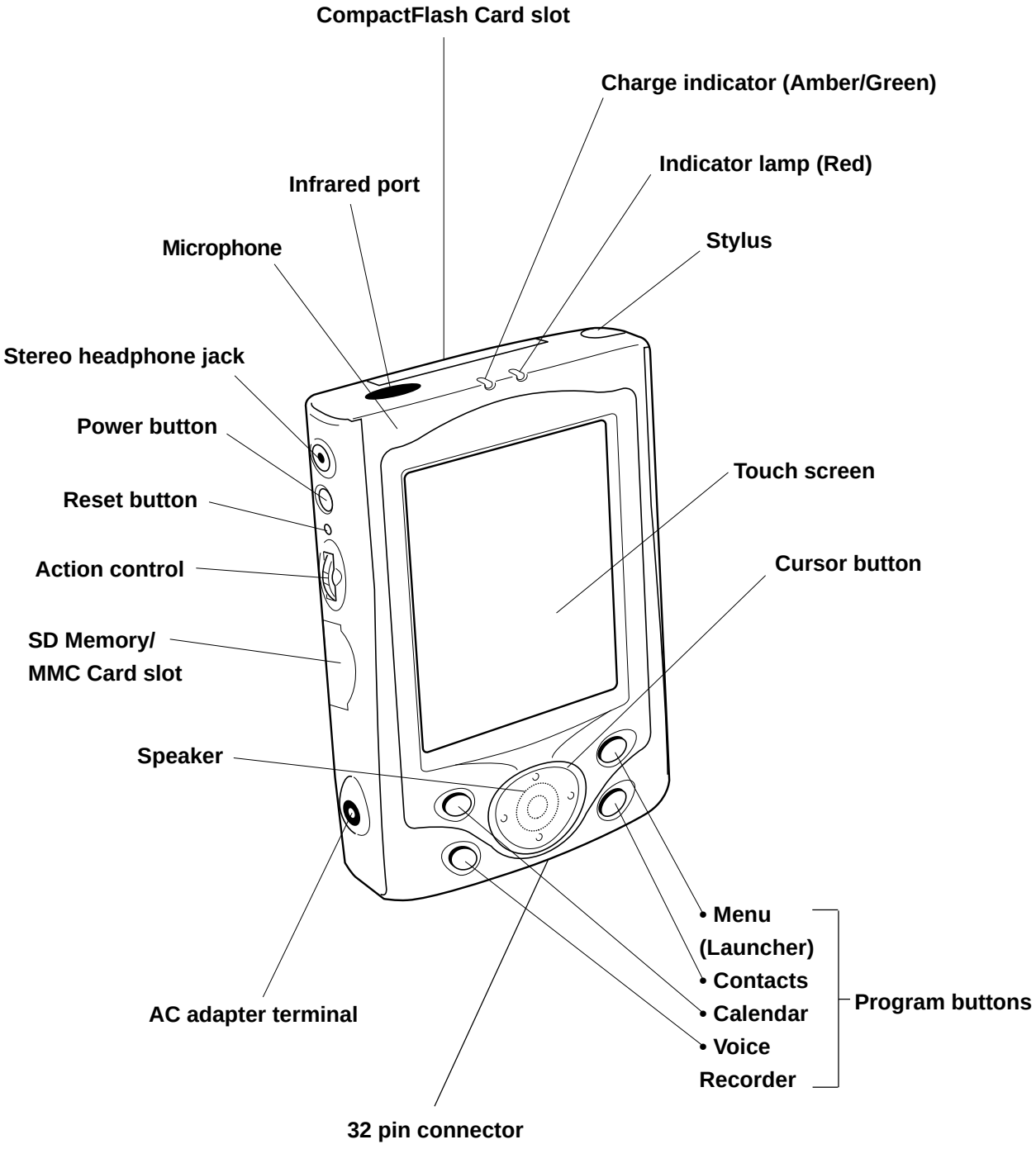
- **When installing ActiveSync on a computer, check to make sure that the specified COM port number correctly indicates the serial port to which the cradle is connected.**
- **Some laptop and sub-compact computers with built-in infrared ports and modems are initially configured so the COM port is not always used as a serial port. In such a case, the setting must be changed so the COM port is always used as a serial port.**

  See the documentation that comes with connected computer for full details on COM port numbers and settings.

5. GENERAL GUIDE

(Quotation from E-200 Hardware Manual)

5-1. Guidance of each functions



5-2. Initial Setup

After first unpack of the unit, perform the following initial setup procedure before using it for the first time.

1. Load the main battery (rechargeable battery pack).
- Be sure to use the AC Adapter to charge the battery pack before doing anything else.
  The unit will not be operated correctly if the backup battery is loaded before charging the battery pack.

2. Use the AC Adapter to charge the battery pack.

3. Load the backup battery.

4. Press the [Power] button.
- After a few moments the welcome screen appears.

5. Follow the steps in the Welcome Wizard.

6. When finished, the Today screen can be seen.
- **Also installation of ActiveSync is necessary before communication with a desktop computer.**
- **If the touch panel does not respond when it is tapped or if nothing appears on the display, try performing a full reset. If this does not restore proper operation, remove the main battery and the backup battery and wait for about five minutes. Reload the main battery first and then the backup battery, and perform the above procedure again from step 4.**
- **If the message "A problem with memory contents has been found..." appears on the display, perform a full reset.**
- **While prrforming above Initial Setup or FULL RESET operations, be sure to perform the following "Cut" and "Paste" operation. Otherwise, it can not be continued to perform these operation, and the unit can not be completed Initial Setup or FULL RESET.**

Tapping "Next" in Stylus Wizard screen, pop-up menus Wizard display will appear.
Holding down "Dr. Johnson’s office" or "Dental appointment" using the stylus, "Cut" display will appear.
Then, after holding down its "Cut" character, hold down item 11. After that, "Paste" display will appear.
Then, hold down "Paste" character using the stylus. Then, tap "Next".

5-3. Operation

Using the Stylus

Data input and virtually all other operations are performed using a stylus, which is housed inside the stylus holder in the right corner of the unit.

- **Use only the stylus that comes with the unit, or some other stylus type instrument with a soft, blunt point to perform touch screen operations. Never use a pen, pencil, or other sharp writing implement.**

Recalibrating the Touch Screen

Recalibrate the touch screen whenever touch screen response is bad, or when the operation performed is different from the operation you expected when tapping on the touch screen.
To recalibrate the touch screen, press the [Action] control while holding down the [Power] button (or tap , **Settings**, the **System** tab, and then the **Align Screen**). Next, follow the instructions that appear on the screen.

Adjusting Display Brightness

Use the following operations to adjust display brightness to make it easier to read.

- Tap and then **Settings**. On the **System** tab, tap **Brightness**. On the dialog box that appears, tap the **Brightness** tab.
- While holding down the [Action] button, press the right side of the cursor button to make the screen brighter, or the left side of the cursor button to make it dimmer.

Adjusting Auto Dimming Settings

1. Tap and then **Settings**. On the **System** tab, tap **Brightness**.
2. On the dialog box that appears, tap the **Auto Dim** tab.
3. Follow the instructions that appear on the screen to make auto dimming settings.

- The separate auto dimming settings for battery power and AC adapter power can be done by selecting the appropriate check box.
- The front light turns back on whenever the unit is pressed a button or tap the screen while the unit is turned off.

Changing Applications Assigned to the Program Button

- Tap and then **Settings**. On the **Personal** tab, tap **Button**, and then follow the instructions that appear on the display.

Using the Cradle

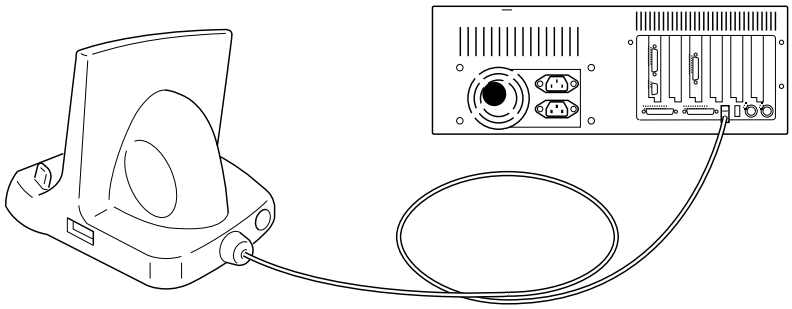
The cradle provides quick and easy connection between the unit and a computer.

- The unit can be powered by AC power when it is placed on the cradle.
- The battery pack charges while the unit is on the cradle.
- The cradle is equipped with a USB-A connector to connect another USB device.
- **Before connecting the unit to a computer, make sure first installation of the ActiveSync on connected computer.**

Connecting the Cradle to a Computer

The cradle has a USB cable for connection to a computer. Connect the end of the cable to a USB port of the connected computer.

- **See "Required System Configuration" on page 5 for details on the type of computer system required for use with the cradle.**



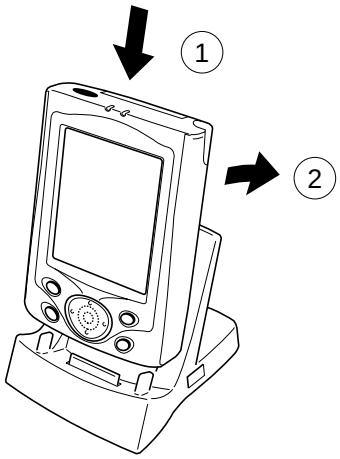
- **The above illustration is one example of possible connection configurations. The locations and layouts of USB ports vary from computer to computer. See the documentation that comes with connected computer for full details on connecting cables to it.**
- **Note that after connecting the cradle to connected computer, it is neccessary to make certain ActiveSync settings on connected computer to enable data transfers. See the *ActiveSync Help* for details about setting up and using ActiveSync.**

To place the CASSIOPEIA onto the cradle

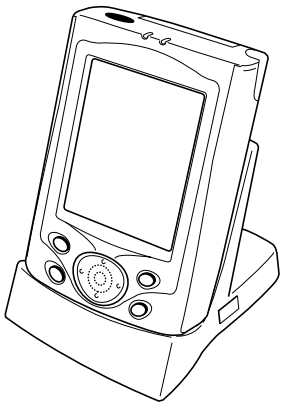
Make sure that unit power is turned off before it is placed it onto or remove it from the cradle.

Use the following procedure to place the unit onto the cradle.

1. Place the cradle on a desk or other flat, level surface.
2. Turn off the unit.
3. Orient the unit in relation to the cradle as shown in the illustration below.
   Make sure the raised part of the cradle enters into the recess on the back of the unit.



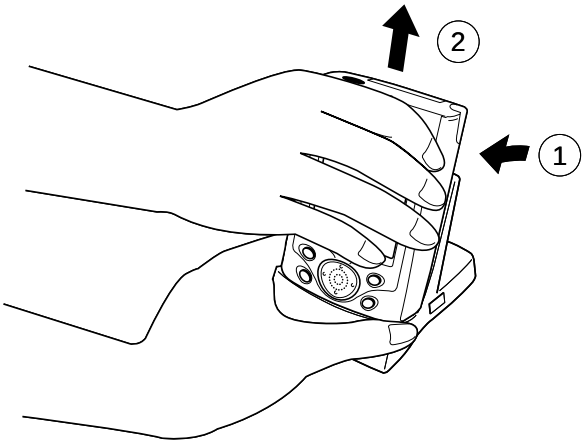
4. Taking care to align the serial connector on the bottom of the unit with the connector on the cradle, lower the unit into the cradle as shown in the illustration below.



Make sure the unit lowers securely into the cradle as far as it can go.

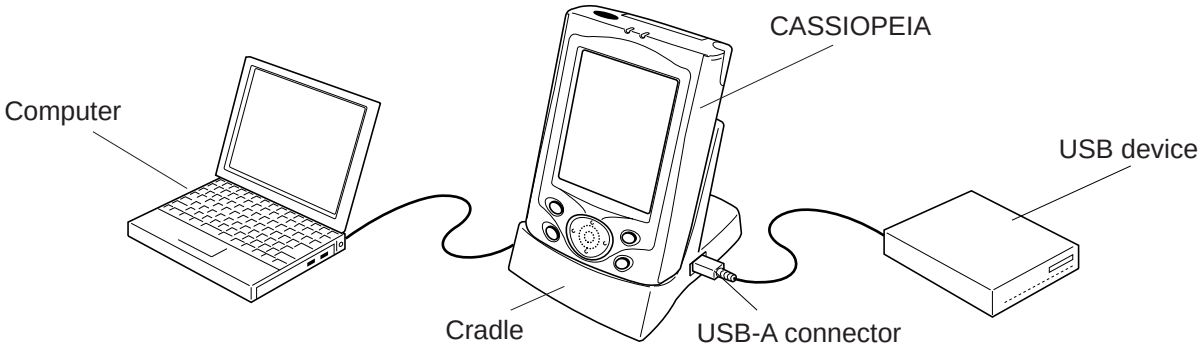
To remove the CASSIOPEIA from the cradle

Pull up on the unit so the recess on its back disengages from the raised part of the cradle, and then lift the unit straight up from the cradle.



To connect another USB device to the cradle

The cradle is equipped with a USB-A connector that can be used to connect another USB device, as shown below.



- When using any USB device, make sure the applicable USB driver on the unit.

Using the USB Cable

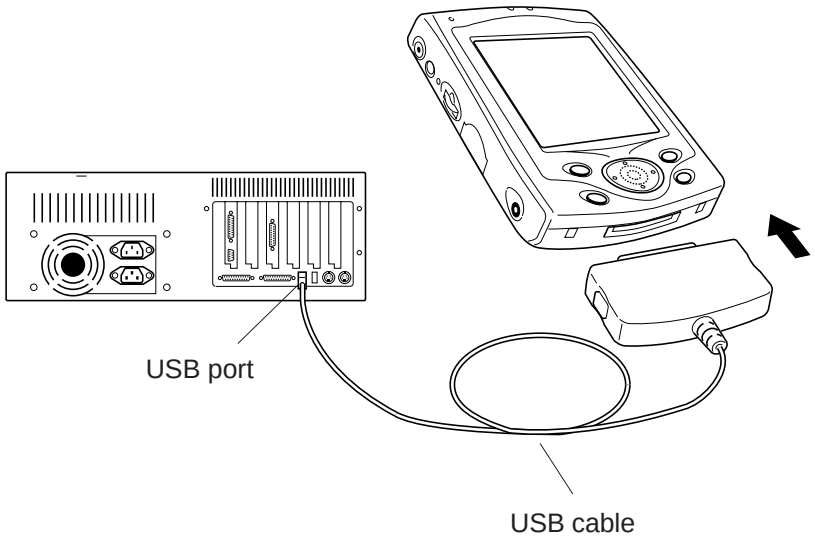
The USB cable to connect the unit directly to a computer.

- **See "Required System Configuration" on page 5 for the computer system that is required for direct USB connection.**
- **The illustration below is just one possible connection configuration. The location and layout of USB ports vary from computer to computer. See the documentation that comes with connected computer for full details on connecting cables to it.**
- **Make sure ActiveSync installed on connected computer in order to exchange data with the unit over a USB connection. See the *ActiveSync Help* for details about setting up and using ActiveSync.**

To connect to a computer using the USB cable

Before connecting the unit to a computer, make sure to first install the ActiveSync on connected computer. Use the steps below to connect the unit to connected computer when prompted to do so during the software installation procedure.

1. Plug the USB cable into the USB port of your computer.
2. Turn off the unit.
3. Connect the other end of the USB cable to the unit.



- To disconnect the USB cable, squeeze in on the buttons on either side of the plug to unlock it, and then pull.

Infrared Communication

The infrared port of this unit can be used to exchange data with another unit, or with another device equipped with infrared communication capabilities. Remember that the two infrared ports must be pointed directly at each other when performing communication. The distance between the two infrared ports must be less than 20 cm.
See the *Pocket PC User's Guide* for full details on performing infrared communication.
For infrared data communication with another device, the other device must conform with IrDA 1.2 standards, and it must specifically support infrared data communication with a unit.

- **Take care so either of the units does not move while infrared data communication are in progress.**
- **Infrared data communication may be impossible under strong sunlight or inverter type fluorescent lighting.**
- **Infrared data communication problems can be caused by the distance between the two ports, the angle between the two ports, outdoor sunlight, and low batteries.**
- **Dirt and dust on the infrared port surface can cause communication errors and other problems.**

Using a CompactFlash Card

The unit supports Type I and Type II CompactFlash Cards (3.3 V).
The following describes the types of CompactFlash which card can be used.

Storage Card

A storage card functions the same as the unit's data storage memory.

Modem Card

A modem card can be connected to a telephone line (standard household modular jack, public telephone with modular jack, etc.) for modem data communications.

Wireless Modem Card

With a wireless modem card, it can be performed mobile data communication without a wire connection to a telephone circuit.

- Gently but firmly slide the card into place as far as it will go, but do not force it. Forcing a card can damage connectors. If there are problems inserting a card, pull it out and check to make sure it is oriented correctly.
- Sometimes, the unit may not be able to detect a CompactFlash card. This is indicated when a program on the card does not start up normally. When this happens, remove the card, reinsert it, and then press the unit reset button.
- The unit supports 3.3 V CompactFlash cards only. 5.0 V cards are not supported.

Using a SD Memory Card or Multimedia Card

The unit supports SD memory cards and Multimedia cards.

- **The card slot cover will not close when certain types of cards are in the slot.**
- **Gently but firmly slide the card into place as far as it will go, but do not force it.**
  Forcing a card can damage connectors. If there are problems inserting a card, pull it out and check to make sure it is oriented correctly.

Built-in Storage

The unit comes with two types of user memory built-in: RAM and flash memory. Flash memory appears on File Explorer under **My Device** → **Built-in Storage**, and operates just like a storage card. To find out how much flash memory capacity is still available, tap **Start** → **Settings** → **Memory** → **Storage Card**.

Using a PC Card Unit (Option)

The PC Card Unit makes it possible to use PCMCIA type cards with the unit. An optionally available battery pack can also be installed on the PC Card Unit and used as an external power supply for the unit. See the user documentation that comes with the PC Card Unit for details about using it.

About the 20Pin/USB host Converter (Option)

The 20Pin/USB host Converter (JK-744CV) converts the unit's 32-pin serial connector to a 20-pin connector, which is able to accept connection of a 20-pin serial cable. See the user documentation that comes with the 20Pin/USB host Converter for details about using it.

About the Modem Adapter and Modem Card (U.S. and Canada Only)

The Modem Adapter (JK-720MA) and CompactFlash type Modem Card (JK-711MC56) make it possible to use the unit to access the Internet over an analog dial-up connection. See the documentation that comes with the modem card for information about how to use it.

Check to make sure that the battery pack is charged before using the modem adapter and modem card. Low battery power can cause sudden interruption of communication, unstable communication, and loss of data.

5-4. Software Applications

Software applications are available for purchase from Microsoft and third parties who support Windows CE. For details on commercially available software applications, visit the Microsoft Web site at *http://www.microsoft.com.*

The unit also comes with a *CASSIOPEIA Applications CD-ROM* that contains a number of useful applications. The necessary applications must be installed from the CD-ROM before they are used. See the documentation contained on the CD-ROM for details on using the software applications.

- **Whenever purchasing software applications, always double-check to make sure that it is compatible with the CASSIOPEIA.**
- **Some applications written for a Palm-size PC (Windows CE 2.11) may not run on a Pocket PC. Contact the producer of the application for information about an upgrade to the Pocket PC version.**

6. BATTERY & RESET

(Quotation from E-200 Hardware Manual)

6-1. Batteries

The unit is powered by a dual power supply that consists of a main battery (rechargeable battery pack) and a backup battery (CR2032 lithium battery).

Main (Backup) Battery

Recharge (Replace) the battery pack (backup battery) as soon as possible after the following message appears.
"Main (Backup) Batteries Very Low
To prevent possible data loss, replace or recharge the main batteries according to the owner's manual."

If unit power turns off due to insufficient power or sudden power drain by a Storage card, the following warning message appears on the display the next time it is turned on unit power.
"Warning
Due to high current demand by the hardware, the system powered down in order to protect memory contents..."

Be sure to observe the following important battery handling precautions. Failure to do so can cause batteries to leak, resulting in damage to surrounding items and create the danger of fire and electrical shock.

- **Use only the types of batteries specified for use with this unit.**
- **Charge the battery pack in an area where the temperature is between 10 °C (50 °F) and 35 °C (95 °F). Charging in areas that are very cold or exposed to direct sunlight can cause deterioration and leaking of the battery pack.**
- **To avoid deterioration and leaking, the battery pack is designed to discharge even when it is not used. Be sure to recharge the battery pack at least once every three months, regardless of how much it is used the unit during that time.**

6-2. Reset

"Reset" is similar to a computer reboot. Performing a reset deletes any data that is in the process of being input or edited, without yet being saved. Data stored in memory and all settings, however, are retained.
Perform the reset operation whenever the unit fails to operate correctly due to operational error or some other abnormality. Any of the following symptoms indicate that reset is required.

- If the unit does not respond when the screen is tapped or pressed a button
- If the icon that indicates a procedure is in progress remains on the display for a long time

Normally the reboot-type reset does not delete data in internal memory. If corrupted data is discovered, however, all data stored in memory will be deleted.

Performing a Reset

1. Use the stylus to press the reset button.
- The unit performs a reset followed by a memory check operation.
  If no data error is found, the following two screens appear on the display in succession.
  - Startup screen
  - Today screen

2. Normal unit operation is possible after the desktop appears.
- Memory data and settings are retained when the Pocket PC is reset.

If the above operation does not solve the problem, perform a full reset (Memory Initialize, page 16).

Memory Error Message

If the memory check operation that the unit performs when the reset button is pressed detects a data error, the following message appears on the screen instead of the startup screen.

"A problem with memory contents has been found. Press [Action] to continue with the reset procedure, which restores normal system operation.
Note that if the system determines that user memory cannot be repaired, it will delete all user data currently in memory.
See the User's Guide for details about initializing memory."

This message indicates that the memory error is fatal and so recovery is impossible.
Press the [Action] control to execute a full reset (memory initialize), which deletes all data stored in memory.

- Pressing the [Action] control should display the Startup screen followed by the touch screen calibration screen. The remainder of this procedure is identical to the Initial Setup described in the Quick Start Guide. Perform the steps of the Initial Setup procedure.
- If pressing the [Action] control returns to the desktop without displaying the startup screen first, see the following explanation for the procedure you need to follow.

What to do if the startup screen does not appear when you press the [Action] control

Even though the desktop appears when the [Action] control is pressed, there is still a data error in memory and a full reset (memory initialize) must be performed. Before it is done, however, there is the chance that some of the data in memory can be recalled and even transferred to a computer. Try recalling the necessary data before performing the procedure described on the next page to perform a full reset.

Do not use the ActiveSync backup function to back up data to a computer when it is suspected a data error. Doing so may also include the corrupted data that is causing, which means the problem will reappear when the deta are restored.

6-3. Full Reset (Memory Initialize)

Full reset (memory initialize) deletes all data, and resets all unit parameters to their initial defaults.
The following are conditions when a full reset should be performed.

- When all memory data are wanted to delete and returned unit settings to factory defaults
- When the password is forgotten and needed to clear it
- When a data error causes operational problems
- Appearance of the message: **"A problem with memory contents has been found..."**

Performing a Full Reset

1. Make sure that unit power is turned on.
2. While holding down the power button, use the stylus to hold down the reset button for about two seconds.
3. Press the [Action] control.
4. Press the [Action] control again.

- This starts the full reset operation, which deletes all data in memory.
- Pressing the [Action] control should display the Startup screen followed by the touch screen calibration screen. The remainder of this procedure is identical to the Initial Setup described in the *Quick Start Guide*. Perform the steps of the Initial Setup procedure.

Errors Following a Full Reset

Either of the following two conditions can cause errors to continue, even after a full reset is performed.

- Hardware defect
- System problem caused by failure to correctly perform the reset procedure before using the unit for the first time

Perform the procedure on page 16 when the full reset (memory initialize) does not correct the problem.

7. OPERATION CHECK

7-1. Preparation

1. E-200(Prepare another units to perform IrDA communication check except the checking unit.)
2. Compact Flash Memory Card (recommended more than 32MB type, at least 8MB type required)
3. SD Memory Card
4. Rechargeable Battery Pack
5. AC Adapter (AD-C54240E)
6. Cradle (JK-514CR)
7. Diagnostic Program File 2577 for E-200 with compact Flash Memory Card
8. Stereo Earphone (JK-840HE)

NOTES:

* Be sure to make back-up copies of all data in the unit before repair using BACKUP/ RESTORE function in ActiveSync 3.5 software or Card Backup Tool in Utilities Program because **FULL RESET** must be performed to finish or abort this operation check.

7-2 How to make a CF CARD for the diagnostic program

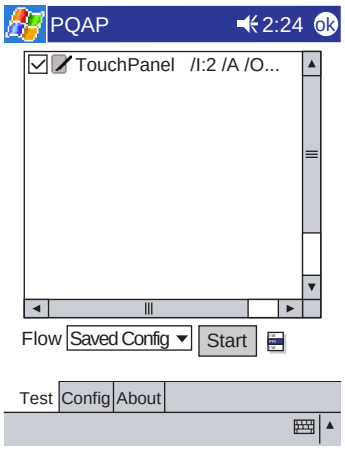
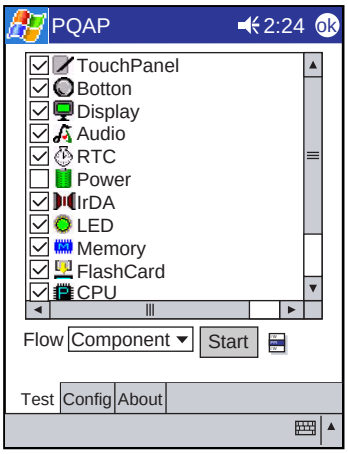
The diagnostic program is contained as 2577 file in CD-ROM of Service disc.

There are 45 files in the 2577 folder of the diagnostic program as shown below.

Transfer the files to the CF CARD using ActiveSync 3.5 or make copy of them using the CF CARD adaptor.

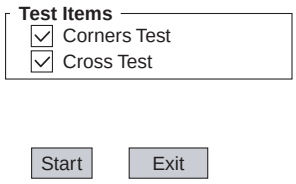
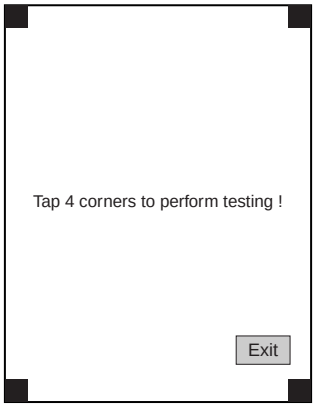
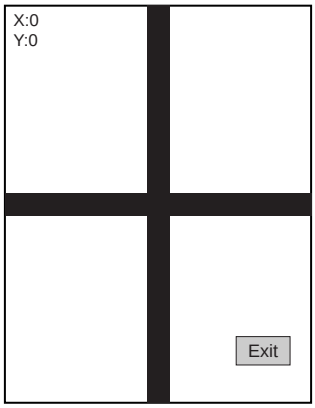
Do not transfer any other file except for diagnostic program 2577 in the CF card.

7-3. How to boot the diagnostic program

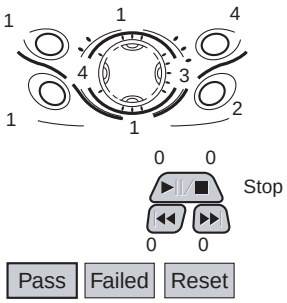
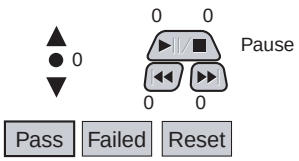
< HOW BOOT AND CHECK THE PROGRAM >		
Seq.	Operation	Display
1	Perform full reset	Initial display (welcome) comes up after full reset
2	Peform initial set up (Refer to 5-2. Initial Setup of page 8)	Today Screen (Microsoft mobile) comes up
3	The test menu is booted automatically after the CF card with the diagnostic program is inserted.	
4	Tap "Flow" and select "Component"	
5	Tapping "Start" carries out the test items whose boxes have been checked. Note: The check box of "Power" and "Break" test should be blank.	

7-4. Operation Check

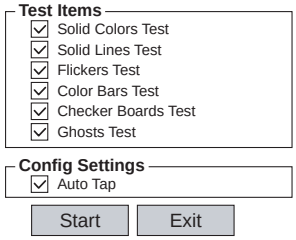
■ Touch Panel
Touch Panel should be checked.

No.	Operation	Display	Check	If NG
1	Check the item which you want to test and tap "Start".			Touch Panel, Main PCB
2	Corners Test Tap on the four points at corners. After the test, "Test Passed!" or "Test Failed!" is indicated.		If the four marks do not disappear, tapping if NG.	
3	Cross Test Trace the cross top to bottom, and right to left. After the test, "Test Passed!" or "Test Failed!" is indicated.		Make sure the cross disappear after tracing. Note: Some small area of the cross may not disappear at the end. At that time, "Test Failed!" comes up, but disregard it.	
4	Tap "Exit".			

■ Button
Button should be checked.

No.	Operation	Display	Check	If NG
1	Check if the unit correctly counts the number of times the buttons in the right fiture are pressed. Tapping "Reset" clears the number. After confirming the test, tap "Pass" or "Failed." Note: Connect remote earphone if it is tested.		Confirm the number every pressing button	Button PCB, Main PCB, Remote earphone
2	Check if the unit correctly counts the number of times the buttons in the right fiture are pressed. Tapping "Reset" clears the number. After confirming the test, tap "Pass" or "Failed."			

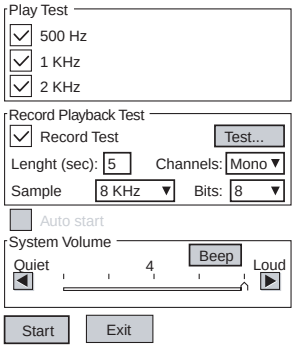
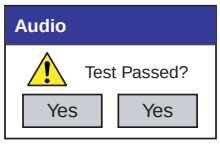
■ Display
Display should be checked.

No.	Operation	Display	Check	If NG
1	Check the item which you want to test and tap "Start". Selecting "Auto Tap" makes screen feed automatic.		Check if the display color is normal.	LCD module, Main PCB
2				
3	After the test, "Test Passed!" or "Test Failed!" is indicated.			
4	Tap "Exit".			

Test Items	Display
Solid Colors Test	RED
	GREEN
	BLUE
	BLACK
	WHITE
Solid Lines Test	Horizontal lines 1 dot
	Reverse of horizontal lines 1 dot
	Vertical line 1 dot
	Reverse of vertical lines 1 dot
Flickers Test	Vertical gradation 1
	Vertical gradation 2
	Horizontal gradation 1
	Horizontal gradation 2
Color Bars Test	Color bars and gradation 1
	Color bars and gradation 2
Checker Boards Test	Checks
	Reverse checks
Ghosts Test	Monochrome bar 1
	Monochrome bar 2

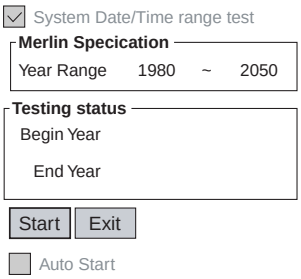
■ Audio

Audio should be checked.

No.	Operation	Display	Check	If NG
1	Check the item which you want to test and tap "Start". Note: L-ch and R-ch sound can be test if remote earphone is inserted.		Check if the sounds are normal.	Speaker, Main PCB
2	Play test → Record & Playback test will be done automatically.	"Testing" is indicated next to the test items.		
3	After the test, "Test Passed?" is indicated. And tap "Yes" or "No".			
4	Tap "Exit"			

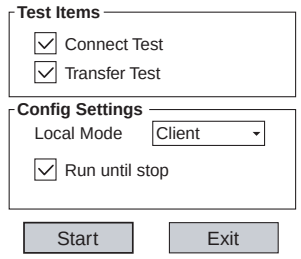
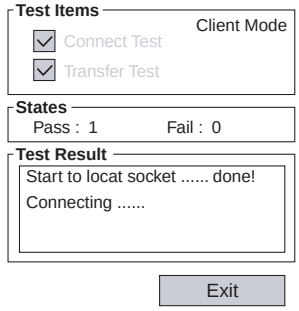
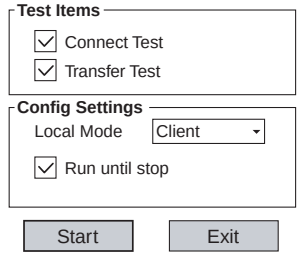
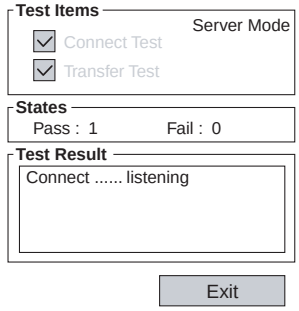
■ RTC

RTC (Real Time Counter) should be checked.

No.	Operation	Display	Check	If NG
1	Tapping "Start" starts the test.		Check if the test finishes normal.	Main PCB
2	After confirming the test, tap "Exit."			

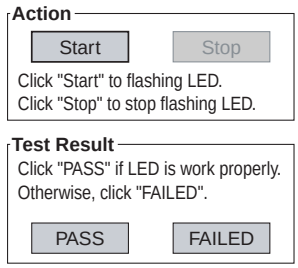
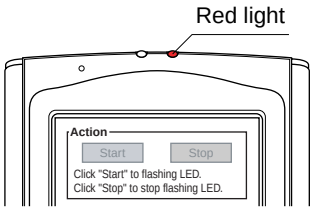
■ Power
Not used.

■ IrDA
IrDA should be checked.

No.	Operation	Display	Check	If NG
	TEST UNIT			
1a	Check the item which you want to test and set local mode "client".			Main PCB
2a	Tap "Start".		Check of the communication condition,	
3a	Tap "Stop".			
4a	Tap "Exit".			
	MASTER UNIT			
1b	Check the item which you want to test and set local mode "Server".			
2b	Tap "Start".			
3b	Tap "Stop".			
4b	Tap "Exit".			

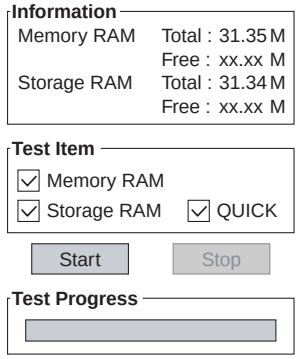
■ LED

LED should be checked.

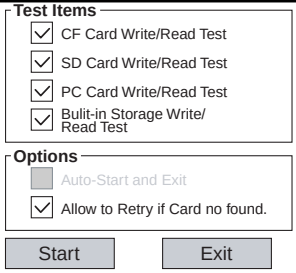
No.	Operation	Display	Check	If NG
1	Tap "Start."			Main PCB
2	Indicator lamp flashes.		Check if the LED flashing is normal.	
3	After confirming the test, tap "Pass" or "Failed."			

■ Memory

Memory should be checked.

No.	Operation	Display	Check	If NG
1	Check the item which you want to test and tap "Start".		Check on Memory Test Result "Pass".	Main PCB, RAM PCB
2	Tap "ok."	"OK" or "Failed" is indicated.		
3	Tap "ok." at status bar.			

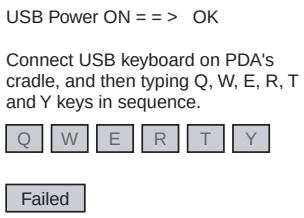
■ FlashCard
FlashCard should be checked.

No.	Operation	Display	Check	If NG
1	Check the item which you want to test and tap "Start".		Check on test result "Pass".	Relevant card
2		"Pass" or "Failed" is indicated in the item.		
3	Tap "Exit."			

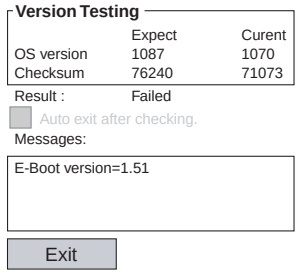
No.	Operation	Display	Check	If NG
1	Information on CPU is indicated.	Processor Vendor : Intel Processor Core : ARM Processor Name : SA1110		
2	Tap "ok."			

■ Break
Break the test procedure. should be blank the check box.

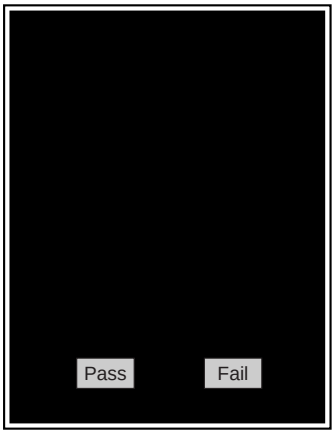
■ UsbHost
USB cable should be checked.

No.	Operation	Display	Check	If NG
1	Set the test unit on the cradle with USB cable. Note: USB cable should be connected to PC which installs ActiveSync.		Check if PC screen shows "Connected" and "Synchronized".	Cradle
2	Type "Q", "W", "E", "R", "T" and "Y" in sequence. Note: Use input panel of the unit.		Check if the typing is OK.	Button PCB, Main PCB
3	If the above procedure is finished, automatically move to next step.			

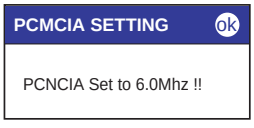
■ OsVer
OS version should be checked.

No.	Operation	Display	Check	If NG
1	Information on OS version is indicated.			
2	Tap "Exit."			

■ Panel Sign
Panel sign shouldbe checked.

No.	Operation	Display	Check	If NG
1	Confirming frame of panel size on display.		Check it the all frame inside of display.	LCD module
2	After confirming the test, tap "Pass" or "Fail."			

■ PCMCIA
PCMCIA setting should be checked.

No.	Operation	Display	Check	If NG
1	Set PC jacket with PCMCIA.		Check it the PCMCIA setting is normal.	PC jacket
2	After confirming the test, tap "ok."			

■ SD_Detect
SD card detection should be checked.

No.	Operation	Display	Check	If NG
1	Insert SD card.	SD Card is removed, Please INSERT SD Card now. Auto exit after tested. Failed & Exit		Main PCB
2	Remove SD card.	PASS Auto exit after tested. Pass Failed & Exit	Check it the test is PASS.	
3	After the test, tap "Pass" or "Failed."			

■ CF Wake-on-Ring
CF wake-on-Ring should be checked.

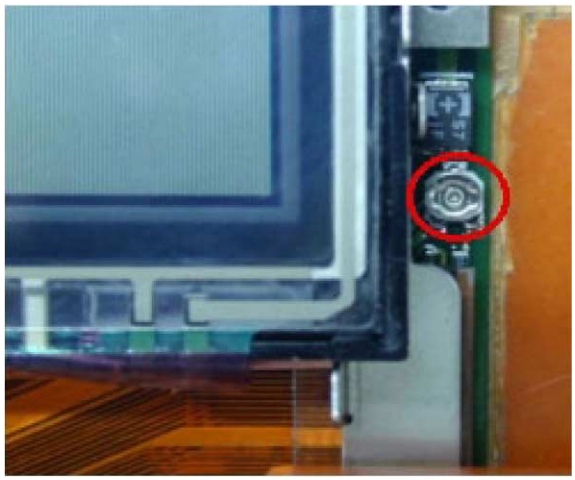
No.	Operation	Display	Check	If NG
1	Testing CF card of wake on ring.	Testing... CF Wake on ring test Test Again Pass Failed		Main PCB
2	Insert CF card.	PASS CF Wake on ring test Test Again Pass Failed	Check it the test is PASS.	
3	After the test, tap "Pass" or "Failed."			
4	Return to test menu.			

8. ADJUSTMENT

■ Display quality adjustment
When flickers and vertical stripes appear in the screen, perform this adjustment according to the following procedure.

1. Disassemble side panel and upper case in accordance with DISSASSEMBLY PROCEDURE of this manual.

2. Put the main PCB as shown below finger, and confirm the position of adjustment volume.



3. Turn on the power switch.

4. Insert a CF card with diagnosis program.

5. Test menu comes up automatically. (Refer to OPERATION CHECK)

6. Check the box only "Display test" in the test menu, and tap "Start".

7. Check the only "Flickers Test", and tap "Start".

8. Confirm the Flickers Test Display.

9. Adjust the volume to minimize flicking.

9. TROUBLE SHOOTING

9-1. Hardware

No power at all	
Possible cause	**Recommend action**
Main battery discharged	Recharge the battery
Internal data corruption (F-ROM/RAM)	Perform full reset
Wrong position of battery cover switch	Set proper position
AC adaptor fault	Replace AC adapotor
No main battery is set with AC adaptor	Set main battery during any operation
Terminals of main battery are dirty	Clean the terminals
Open circuit of internal PCB	Replace main PCB assy

Intermittently no power	
Possible cause	**Recommend action**
Low main battery	Recharge the battery
Poor contact adaptor jack	Change the jack
Poor contact of battery cover switch	Change the switch
Terminals of main battery are dirty	Clean the terminals
Poor contact of internal connector	Check and reconnect

Lock at initial display	
Possible cause	**Recommend action**
Poor contact of RAM PCB connector	Reconnect RAM PCB connector
Faulty main or RAM PCB	Replace the main or RAM PCB

Poor playback sound	
Possible cause	**Recommend action**
Recorded high pressure sound	Leave the microphone from speaker or voice
Low sampling frequency when recording	Chose hjgh sampling frequency
Faulty speaker	Replace the speaker

Lock up during operation	
Possible cause	**Recommend action**
Data is full in memory	Perform reset or full reset operation
Data corruption in RAM	Perform reset or full reset operation
Performed improper application software	Delete the improper application software
Faulty internal PCB	Replace main PCB assy

Lock up at initial display	
Possible cause	**Recommend action**
Poor contact of RAM PCB or connector	Resolder RAM PCB or check the contact
Faulty internal PCB	Replace RAM PCB or main PCB

No front light (Other fanctions OK)	
Possible cause	**Recommend action**
Poor contact of inverter connector	Reconnect inverter connector CN1 and CN2
Faulty inverter PCB	Replace the inverter PCB
Faulty lamp in LCD module	Replace the LCD module

No display/No front light (other functions OK)	
Possible cause	**Recommend action**
Poor soldering of connector at main PCB	Resolder connector pins
Poor contact of inverter cable/connector	Check and reconnect
Faulty Internal PCB	Replace inverter PCB
LCD (of front light lamp) fault	Replace LCD module

Poor playback sound	
Possible cause	**Recommend action**
High pressure sound is recorded	Leave the microphone from sound source
Low sampling frequency when recording	Set hjgh sampling frequency rate
Faulty speaker	Replace the speaker

Erratic display	
Possible cause	**Recommend action**
Faulty LCD	Replace LCD module
Poor connection of LCD cable	Check and reconnect
Poor flikers adjustmet	Readjust VR of flicking
Faulty internal PCB	Replace main PCB assy

No audio sound	
Possible cause	**Recommend action**
Faulty speaker	Replace the speaker
Poor contact of speaker connector	Check and reconnect
Faulty internal PCB	Replace main PCB assy

No input at all	
Possible cause	**Recommend action**
Out of calibration of touch panel	Recalibrate the touch panel
Scratch (damage) on touch panel	Replace the LCD unit
Poor contact of connector	Reconnect the touch panel cable
Internal data malfunction	Reset (or full reset) the unit
Short circuit of key	Replace short switch

Data error/memory corruption message	
Possible cause	**Recommend action**
Internal data malfunction (corruption)	Reset (or full reset) the unit
Weak of main and sub battery	Check voltage of main and sub battery
Improper pocket TV application software	Check the matching of application software
Faulty internal PCB	Replace RAM PCB
Poor soldering of RAM	Resolder RAM
Poor contact of connector	Check the connection and reconnect

No communication by IrDA	
Possible cause	**Recommend action**
Other IrDA is improper type	Check the IrDA with other unit
Faulty main PCB	Replace the main PCB

No communication with PC	
Possible cause	**Recommend action**
Poor contact of serial connector	Check and repair the connector
Open circuit (damage) of serial connector	Check and replace the connector
Wrong set up of parameter	Reset the parameter
No ActiveSync installed in PC	Install the ActiveSync
Faulty internal PCB	Replace main PCB assy

Short battery life (current consumption too high)	
Possible cause	**Recommend action**
Faulty or end of life main battery	Replace new main battery
Short circuit of connector pins	Check and resolder
Short circuit of internal PCB	Check and replace main PCB assy

CF/SD/MM card cannot read	
Possible cause	**Recommend action**
Not designated (improper) card	Swap to recommended (proper) card
Broken (or bend) pins of card slot	Replace card slot or card/main PCB
Faulty internal PCB	Replace main PCB assy

Too slow response of input	
Possible cause	**Recommend action**
Low available of memory capacity	Reset the unit
Poor contact of touch panel and keys	Check the switch and connection

9-2. Software

Lock and data corruption	
Possible cause	**Recommend action**
Improper pocket TV application software	Check the matching of application software
No service patch software installed	Install the service patch software from Web
Faulty main PCB	Replace the faulty main PCB

Backup data cannot be reloaded by Card Backup Tool or ActiveSync	
Possible cause	**Recommend action**
No Card Bacup Tool installed	Install the application from Casio CD-ROM
No service patch software installed	Install the service patch software from Web

Error at Built-in strage access after dial up	
Possible cause	**Recommend action**
No service patch software installed	Install the service patch software from Web

No Menu	
Possible cause	**Recommend action**
No Menu application installed	Install the application from Casio CD-ROM

Note:
Up dated program can be taken by the following URL
http://world.casio.com/euro/ce/download/

9-3. Support for PocketPC 2002

1. IMAP4
When you are using an IMAP4 mail server, note that the mail messages on your server cannot be deleted from the Inbox. In this case, you need to connect to your server with another computer and delete the mail messages on the server.

2. Attachment of e-mail
A file attached to an e-mail message cannot be saved directly to a storage card. Receive the message and file in main memory, and then copy it to a Storage card.

3. DNS value
After checking the DNS value you input for a dial up connection setup, be sure to exit by tapping the **Finish** button. Do not tap the **Cancel** button. If you tap the **Cancel** button by mistake, you will need to reconfigure the setup.

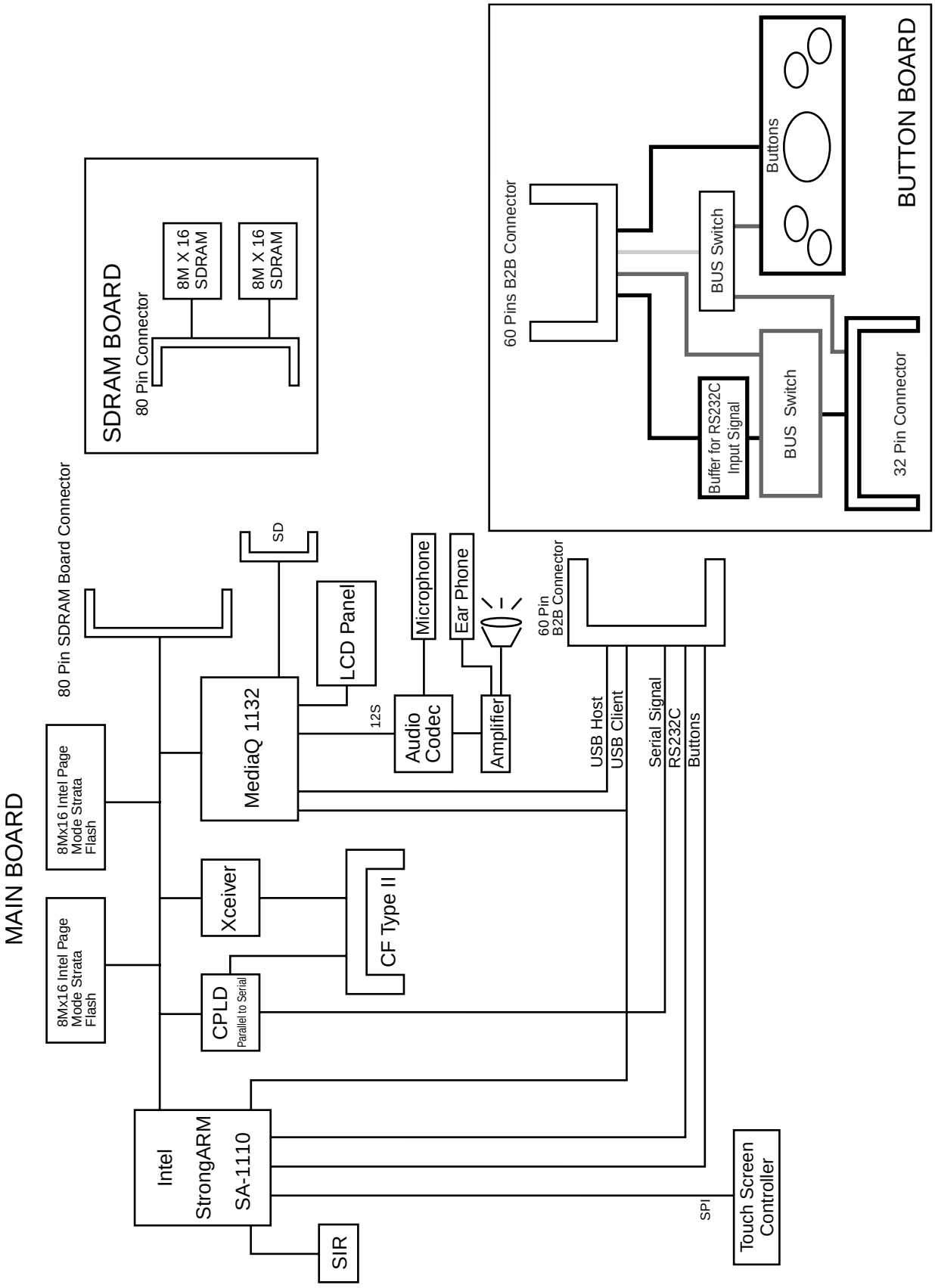
4. Application install/uninstall
Depending on the memory location where you install an application and the method that you use to uninstall an application, you may experience problems when later trying to re-install the same application. If this happens, use Active Sync's **Remove from both location** function to uninstall the application and then re-install it.

5. Memory area
Certain applications may not be able to recognize non-main memory storage areas (storage card or flash memory) correctly. Error messages and failure to store data in non-main memory areas are symptoms that indicate the application you are using falls into this category. When using such an application, use main memory only to store data.

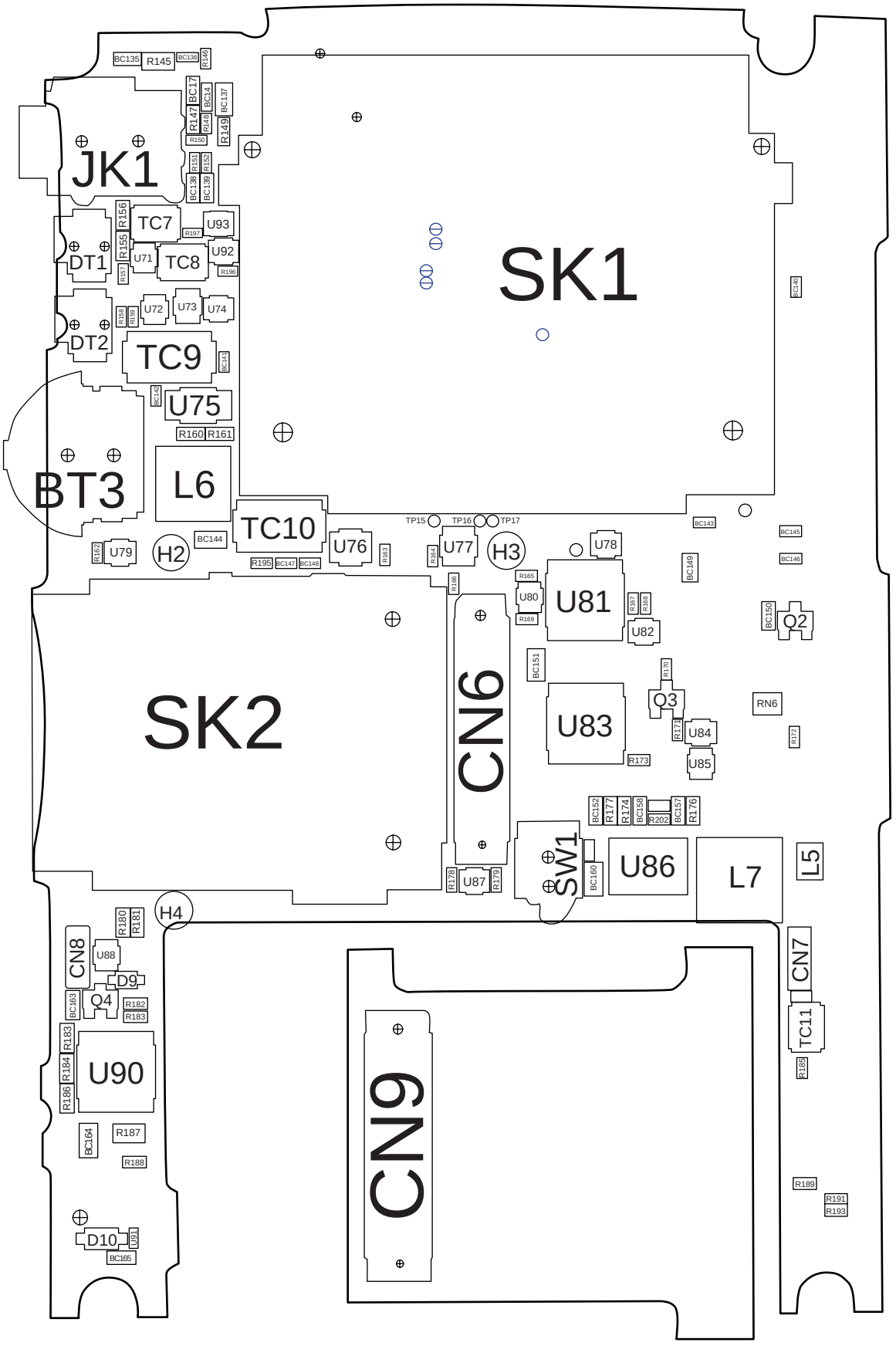
6. Insert/remove of CF card
Whenever you insert or remove a CF card, the system checks the status of the card, automatically sets up the required driver, and performs other tasks. Turning off your PocketPC or removing the card while these tasks are being performed can cause the system to lock up. If your system locks up or freezes, try resetting your PocketPC to restore normal operation.

7. Built-in strage
- After the using dial-up connection, the error occurs when you use the built-in storage. And when you try to write data to or read data from built-in storage, the error may occur also. In this case, reset your Pocket PC.
- After the using dial-up connection, the error occurs when you use the built-in storage. If you install some application software in the built-in storage, please remove all application software in connection with a dial-up in connection from built-in storage to RAM area.

10. WIRING DIAGRAM



11. PCB VIEW


JK1
SK1
SK2
DT1
DT2
BT3
TC7
TC8
TC9
U93
U92
U71
U72
U73
U74
U75
L6
TC10
U76
U77
U78
U79
H2
H3
H4
U80
U81
U82
Q2
Q3
U83
U84
U85
RN6
CN6
SW1
U86
L7
L5
CN7
TC11
CN8
U88
D9
Q4
U90
CN9
D10
U91
TP15
TP16
TP17
R145
R147
R149
R150
R151
R152
R153
R154
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R202
BC135
BC136
BC137
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BC141
BC142
BC143
BC144
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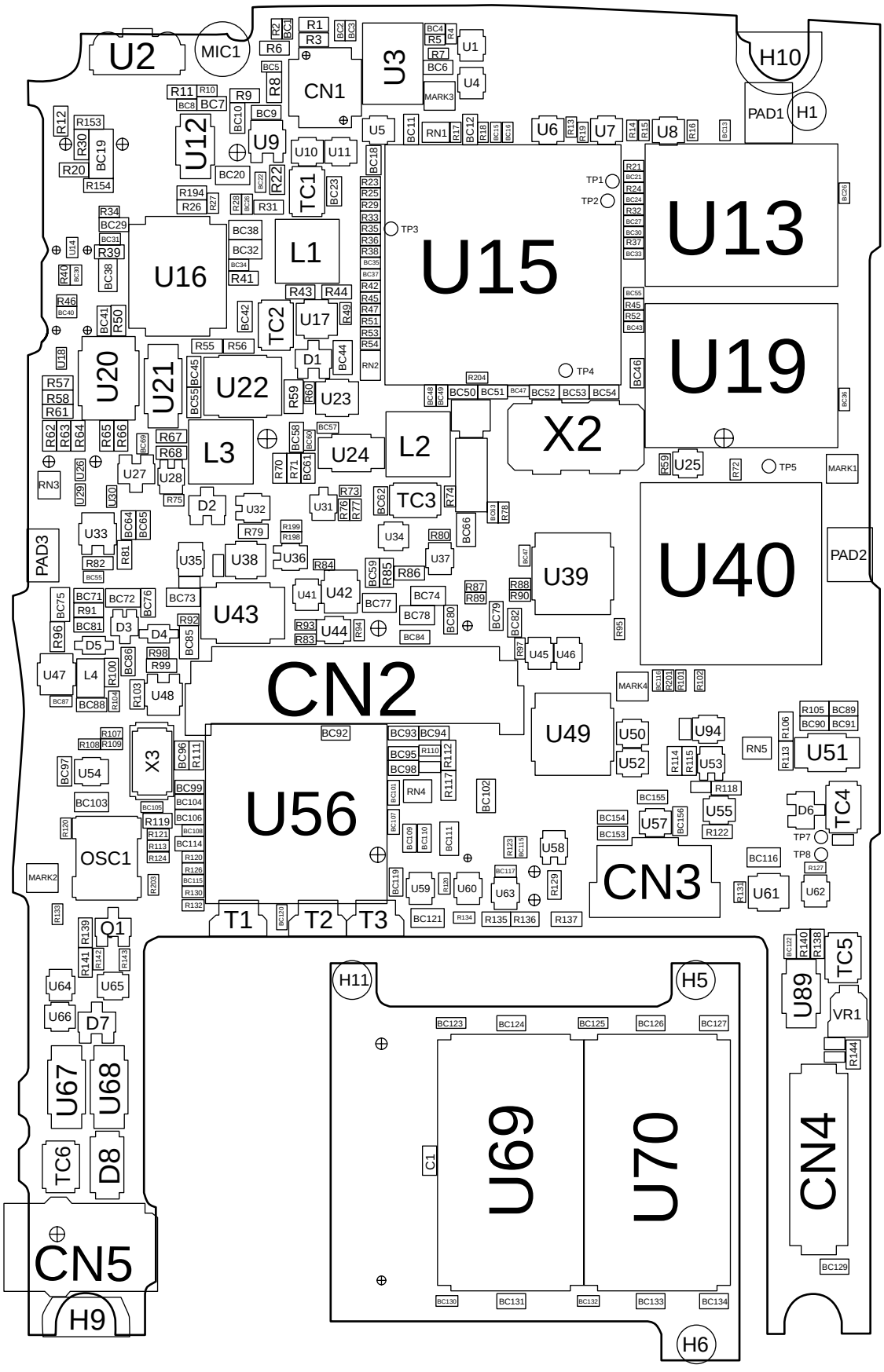
BC148
BC149
BC150
BC151
BC152
BC157
BC158
BC160
BC163
BC164
BC165

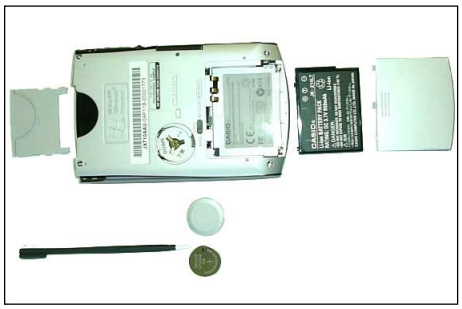

U2
MIC1
U3
CN1
U1
U4
H10
PAD1
H1
U12
U9
U5
U6
U7
U8
U10
U11
TC1
U13
U15
U16
L1
TP1
TP2
TP3
U19
U17
TC2
D1
TP4
U20
U21
U22
X2
L3
L2
U24
TC3
U25
TP5
MARK1
U27
U28
D2
U32
U31
U33
U34
U40
PAD3
PAD2
U35
U38
U36
U37
U39
U43
U41
U42
CN2
U47
L4
U48
U45
U46
MARK4
U49
U50
U94
U52
U53
U51
RN5
U54
X3
U56
U55
U57
D6
TC4
TP7
TP8
OSC1
MARK2
CN3
U58
U59
U60
U63
U61
U62
T1
T2
T3
Q1
H11
H5
U64
U65
U66
D7
U67
U68
U69
U70
C1
U89
TC5
VR1
CN4
TC6
D8
CN5
H9
H6

12. DISASSEMBLY/ASSEMBLY PROCEDURE

12-1. DISASSEMBLY

Disassembly the unit according to the following procedure.

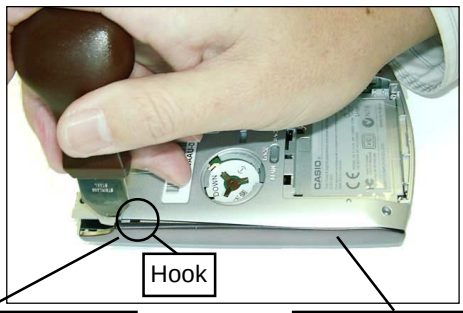
1. Remove CF dummy card, Stylus pen. After sliding the battery cover switch to left and right, remove the battery covers, lithium battery and rechargeable battery in order.

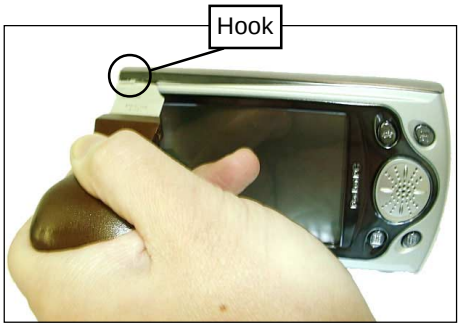


2. By inserting the stylus pen into the hole on the side cover, open SD cover. Then take the SD cover as shown figure, and remove it.

3. Unhook and lift up the cover (panel) as shown figure carefully by using case opener. But do not remove at once, unhook the other side as well. (Refer to other figure) Be careful the double adhesive tape at oposite side of the side cover.

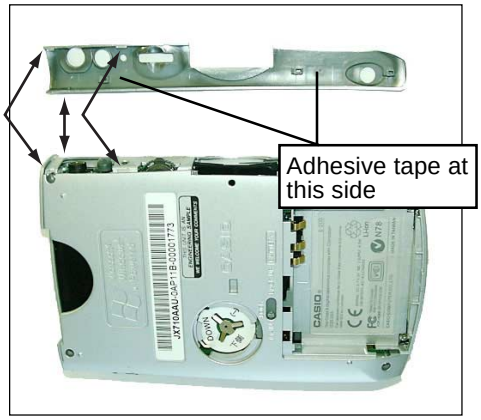
   As these covers may be damaged during disasembling. It is recommended to prepare the replace side covers beforehand.





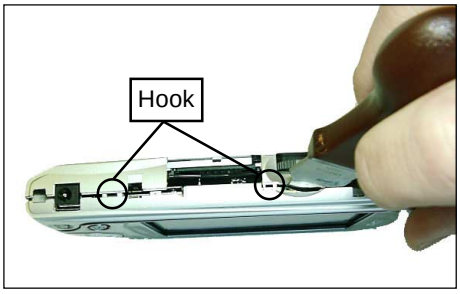
4. By sliding the side cover as shown arrow, remove the side cover carefully.

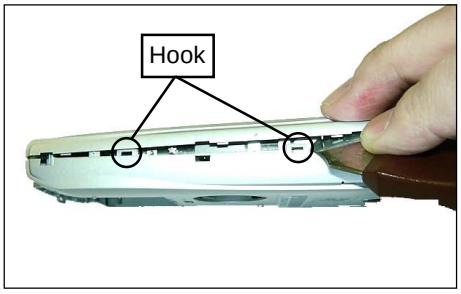
5. Disassemble other side cover as same as 4.



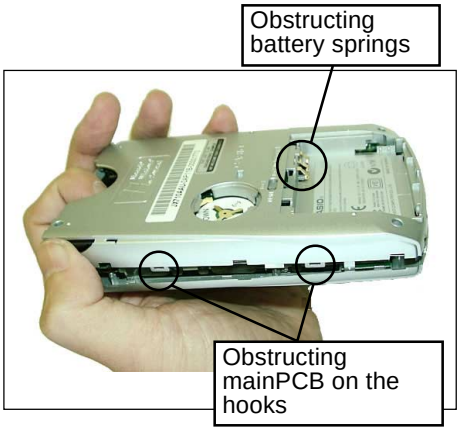
6. Remove 6 screws from the case.

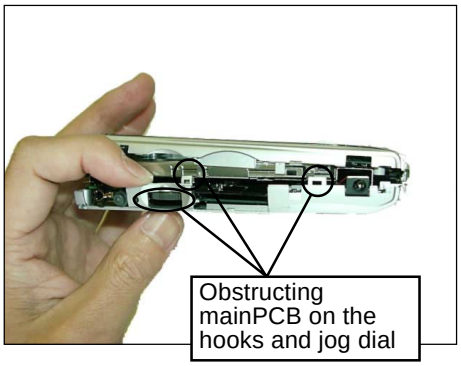
7. Unhook and separate the upper and lower cases by using case opner as shown figure.



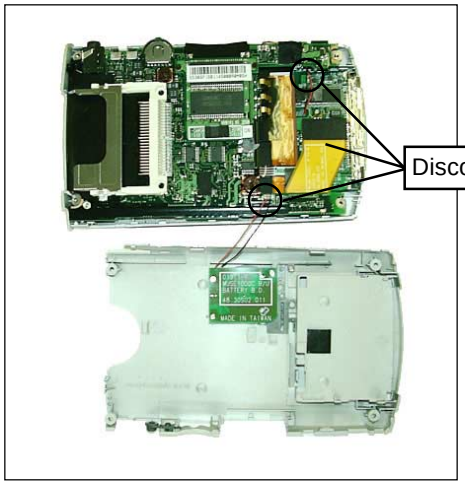


8. Separete the upper and lower case, and main PCB, LCD module and button PCB must be the upper case side.



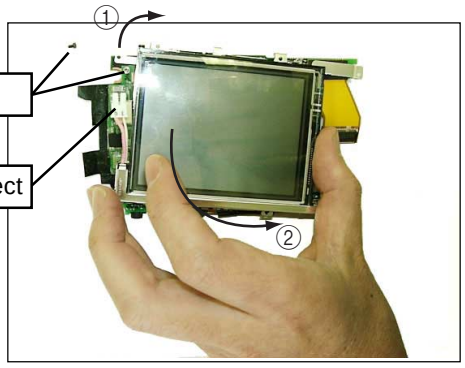


9. Put the upper and lower case as shown figure. And disconnect the backup battery, speaker and button PCB cable.

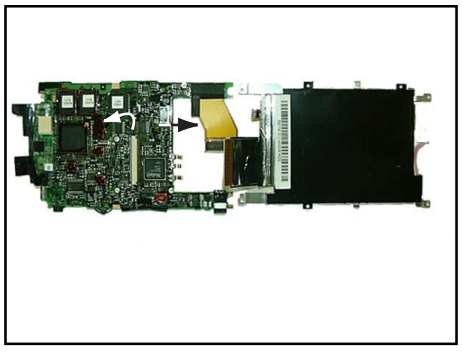


10. Remove main PCB and LCD module from upper case as shown figure.

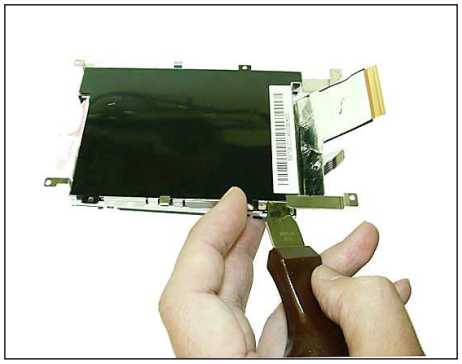
11. Remove LCD module from main PCB as shown figure.



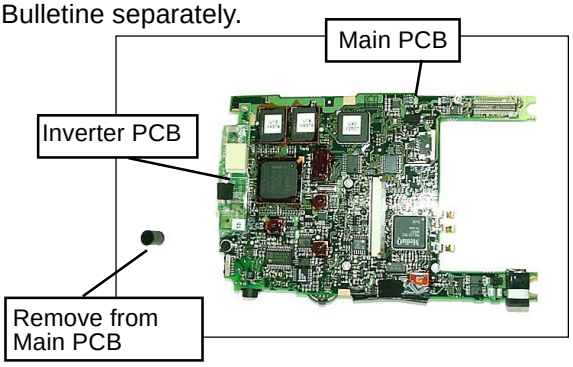
12. Disconnect FPC and LCD cable as shown figure.

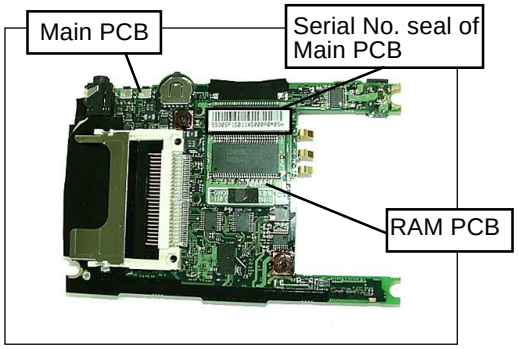


13. Separate the shield plate from LCD module carefully by using case opener. Spare parts of LCD module dose not include the shield plate, and shild paper and insullation seal on LCD cable.

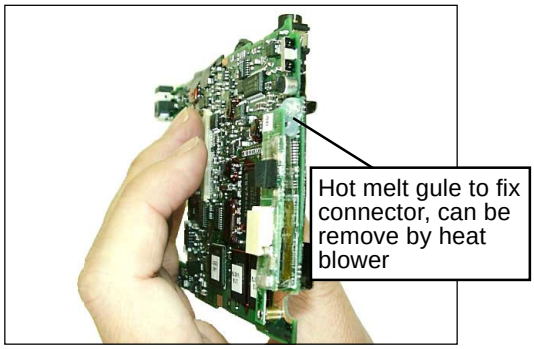


14. The repair is available as set of Main PCB + Inverter PCB + RAM PCB. The details will be informed by Service Bulletine separately.

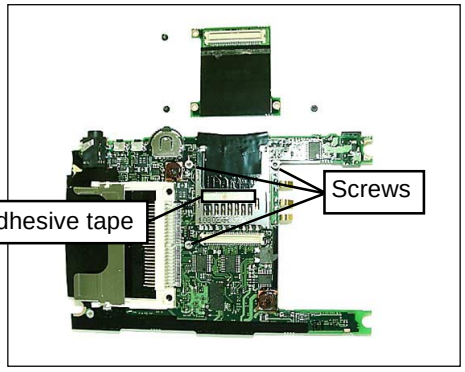




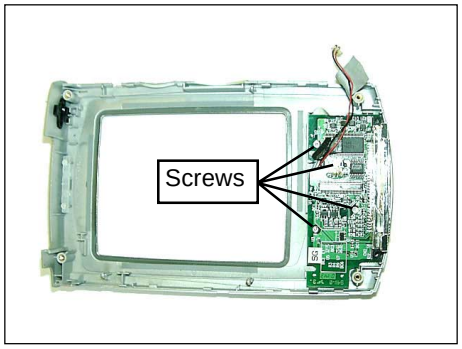
15. The inverter PCB is fixed by connector and hot melt glue which can be remover by heat blower. However do not touch as long as inverter fault.



16. RAM PCB is fixed by screws and double side adhesive tape. However do not touch as long as RAM PCB fault.



17. Remove 4 screws, and separete the button PCB.

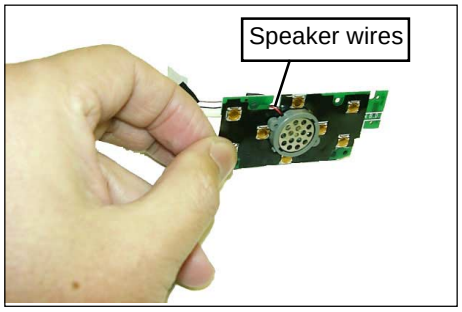


18. Remove Speaker and the cover as shown figure.

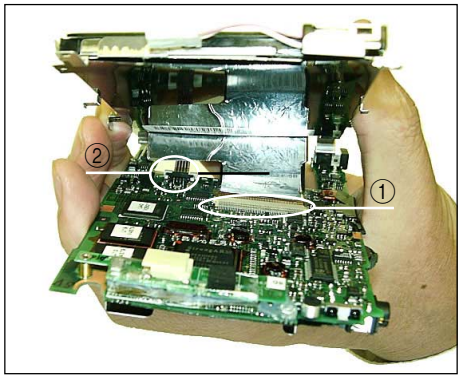
12-2. ASSEMBLY

Assembly the unit according to the following procedure.

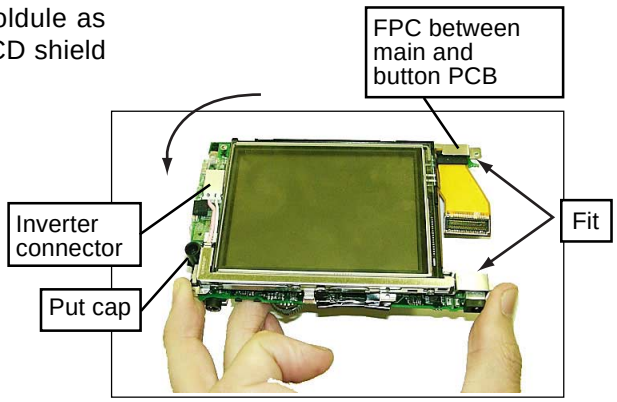
1. Assemble speaker and the cover, then put them as shown figure. Be careful the position of speaker wires. Insulation seal on the button PCB is not included in the button PCB of spare parts.



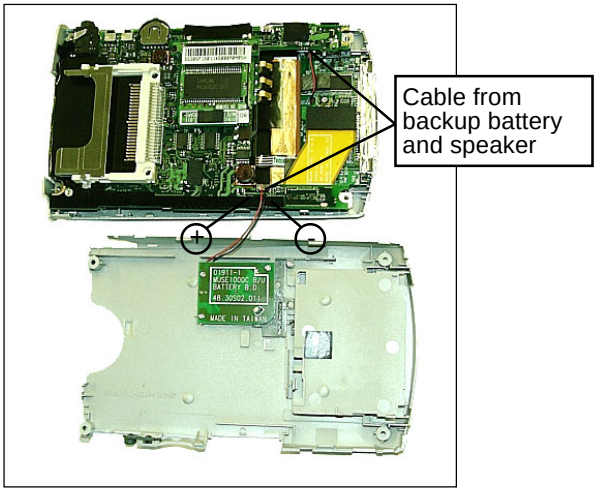
2. Connect the FPC of LCD and touchpanel tightly in order.



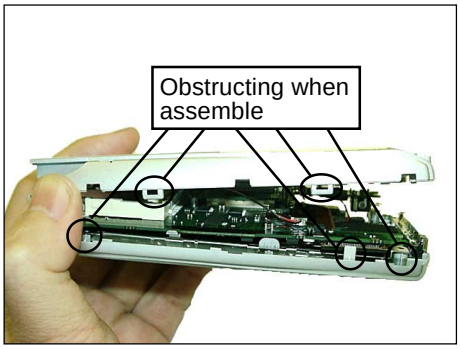
3. Connect the FPC and cable connector. Put LCD moldule as shown arrow on the main PCB. Make sure end of LCD shield plate must be fit at end of main PCB.

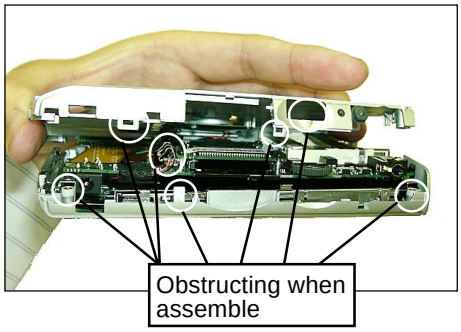


4. Connect the cables from backup battery and spaeker. The pole must be right position.

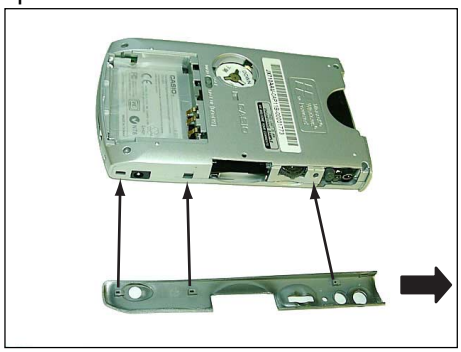


5. Check the onjectives when the upper and lower case are assembled.





6. Put the side cover of right and left as shown black arrows, then pull as white arrow.



15. PARTS PRICE LIST

* Refer to the lower table concerning **Applicable** in Parts LIst.

Applicable	Shipment
U	USA and Canada
B	UK
E	Europe
D	Others

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
	PCB ASSY/MAIN							
N	M1	9481 1128	JACK/HEADPHONE	22.10088.281	Common	1	AA	C
N	M2	9481 1129	JACK/DC	22.10133.381	Common	1	AA	C
N	M3	9481 1130	BUTTON/POWER	62.40007.061	Common	1	AA	C
N	M4	9481 1131	SWITCH/JOG	62.40010.031	Common	1	AA	C
	COMPONENTS							
N	1	1007 5943	BATTERY	23.20066.001	Common	1	CG	C
N	2	1008 2764	PCB ASSY/BACKUP BATTERY	55.30S05.001	Common	1	AT	C
N	3	1008 2765	PCB ASSY/SDRAM	55.30S03.001	Common	1	CR	B
N	4	1008 2767	PCB ASSY/INVERTER	55.30S02.001	Common	1	BQ	B
N	4-1	1009 9820	MAYLAR/INVERTER	40.30S27.001	Common	1	AB	C
N	5	1008 2772	PCB ASSY/BUTTON	6M.30S04.001	Common	1	DE	B
N	6	1008 2775	CABLE/FPC	6M.30S02.001	Common	1	CO	C
N	8	1007 5951	COVER/SD CARD	42.30S08.001	Common	1	AR	C
N	10	1007 5953	FRAME/LCD	60.30S05.001	Common	1	AT	C
N	11	1008 2777	CASE/LOWER	6M.30S06.001	Common	1	CH	X
N	12	1008 2779	CASE/UPPER	6M.30S05.001	Common	1	CX	X
N	13	1008 2813	LCD MODULE	6M.30S03.001	Common	1	EH	B
N	13-1	1009 8502	TOUCH PANEL	S8Z-06-4F	Common	1	CJ	B
N	14	1008 2814	PCB ASSY/MAIN	6M.30S01.001	Common	1	EP	B
N	15	1007 5957	RUBBER/MIC	47.30S03.001	Common	1	AA	C
N	16	1007 5958	PEN SUB ASSY	60.30S03.001	Common	1	AL	B
N	17	1007 5974	SCREW	86.XA52P.4R0	Common	8	AA	C
N	18	1007 5975	SCREW	86.5A32P.3R0	Common	4	AA	C
N	19	1007 5976	SCREW	86.00098.3Q0	Common	2	AA	C
N	20	1007 9873	SCREW	86.5A53P.4R0	Common	4	AA	C
N	21	1007 5978	SPEAKER	60.30S04.001	Common	1	AT	C
N	22	1008 2782	COVER/SIDE(L)	60.30S20.001	Common	1	BP	C
N	23	1008 2783	COVER/SIDE(R)	60.30S21.001	Common	1	BP	C
N	24	1007 7744	CARD/DUMMY	42.30S14.001	Common	1	BC	C
N	25	1008 2816	LABEL/UNIT ID	45.30S02.001	Common	1	AB	C
N	26	1008 2817	LABEL/RATING	40.30S11.001	Common	1	AB	C
N	27	1007 7743	SHEET/BATTERY	40.30S04.001	Common	1	AA	C

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
	OTHERS							
N	101	1007 9259	CRADLE/USB	91.30S27.001	Common	1	CV	C
N	102	1007 0981	SOFTWARE/CD-ROM (MS)	CDJ710AA01A	Common	1	BC	C
	**MS CD-ROM/ Language: English*							
N	103	1008 2785	KIT/CD-ROM	6K.30S01.001	U	1	CP	C
	**CD-ROM for North America is enclosed in this kit. Language: English*							
N	104	1008 2787	KIT/CD-ROM	6K.30S01.002	D	1	CP	C
	**CD-ROM for Asia and Others is enclosed in this kit. Language: English*							
N	105	1008 2789	KIT/CD-ROM	6K.30S01.003	E	1	CP	C
	**CD-ROM for Europe is enclosed in this kit. Language: English*							
N	106	1008 2791	KIT/CD-ROM	6K.30S01.004	B	1	CP	C
	**CD-ROM for UK is enclosed in this kit. Language: English*							
N	107	1007 9260	CASE/SOFT	90.30S28.007	Common	1	BS	C
N	108	1007 5942	ADAPTER/AC	25.10015.001	Common	1	BX	C
	** Connecting this adapter to one of the lower AC cords (Item 109), supply the power to the unit.*							
N	109	1008 2803	CORD/AC	27.01618.071		1	AN	C
	** USA & Canada Type (attached the Rectangular 2 Pin Plug)*							
N	109	1008 2810	CORD/AC	27.01618.081		1	AT	C
	** German Type (attached Round 2 Pin Plug)*							
N	109	1008 2807	CORD/AC	27.01618.091		1	AW	C
	** UK Type (attached the Rectangular 3 Pin Plug)*							
N	109	1008 2811	CORD/AC	27.01618.111		1	AT	C
	** Australian Type*							
		Parts prices will be informed separately by Parts Price List.						

Notes:N-New parts

Q-Quantity used per unit

R-Rank

R- A:Essential

B:Stock recommended

C:Others

X:No stock recommended

1. The following described in Tentative Service Manual can not be supplied.

N	Item	Code No.	Parts Name	Specification	Applicable	Q	R
N	7	1007 5949	COVER/BACKUP BATTERY	42.30S11.001	Common	1	C
N	9	1007 5952	COVER/MAIN BATTERY	42.30S09.001	Common	1	C
N	20	1007 5977	SCREW	86.00099.3Q0	Common	1	C
N	103		SOFTWARE/CD-ROM(CASIO)	CDJ710AA02A	Common	1	C
N	104		SOFTWARE/CD-ROM(CASIO)	CDJ710AA03A	Common	1	C
N	105		SOFTWARE/CD-ROM(CASIO)	CDJ710AA04A	Common	1	C

2. The following parts decribed in Tentative Service Manual will not be supplied in the near future, and are interchanged now as shown below.

	Parts described in Tentative Service Manual				Interchanged Parts		
Parts Name	Item	Code No.	Specification	Stock (in JAN. 2002)	Item	Code No.	Specification
PCB ASSY/BACKUP BATTERY	2	1007 5944	55.30S05.D01	Stocked	2	1008 2764	55.30S05.001
PCB ASSY/SDRAM	3	1007 5945	55.30S03.D01	Stocked	3	1008 2765	55.30S03.001
PCB ASSY/INVERTER	4	1007 5946	55.30S02.D01	Stocked	4	1008 2767	55.30S02.001
PCB ASSY/BUTTON	5	1007 5947	55.30S04.D01	Stocked	5	1008 2772	6M.30S04.001
CABLE/FPC	6	1007 5948	50.30S03.001	Not stocked	6	1008 2775	6M.30S02.001
CASE/LOWER	11	1007 5954	60.30S02.001	Not stocked	11	1008 2777	6M.30S06.001
CASE/UPPER	12	1007 5955	60.30S01.001	Stocked	12	1008 2779	6M.30S05.001
LCD MODULE	13	1007 6207	56.07061.001	Stocked	13	1008 2813	6M.30S03.001
PCB ASSY/MAIN	14	1007 5956	55.30S01.D01	Stocked	14	1008 2814	6M.30S01.001
COVER/SIDE(L)	22	1007 7745	42.30S15.001	Not stocked	22	1008 2782	60.30S20.001
COVER/SIDE(R)	23	1007 7746	42.30S16.001	Not stocked	23	1008 2783	60.30S21.001
CORD/AC	108	1002 5818	27.01618.001	Stocked	109	1008 2803	27.01618.071

Note: 1. The interchanged PCB ASSY/MAIN is wholly different from one described in Tentative Service Manual.
PCB ASSY/INVERTER and PCB ASSY/SDRAM are NOT assembled onto PCB ASSY/MAIN described in Tentative Service Manual, but are surely assembled onto the interchaged one.

2. Two spacers are NOT stuck onto CABLE/FPC described in Tentative Service Manual.

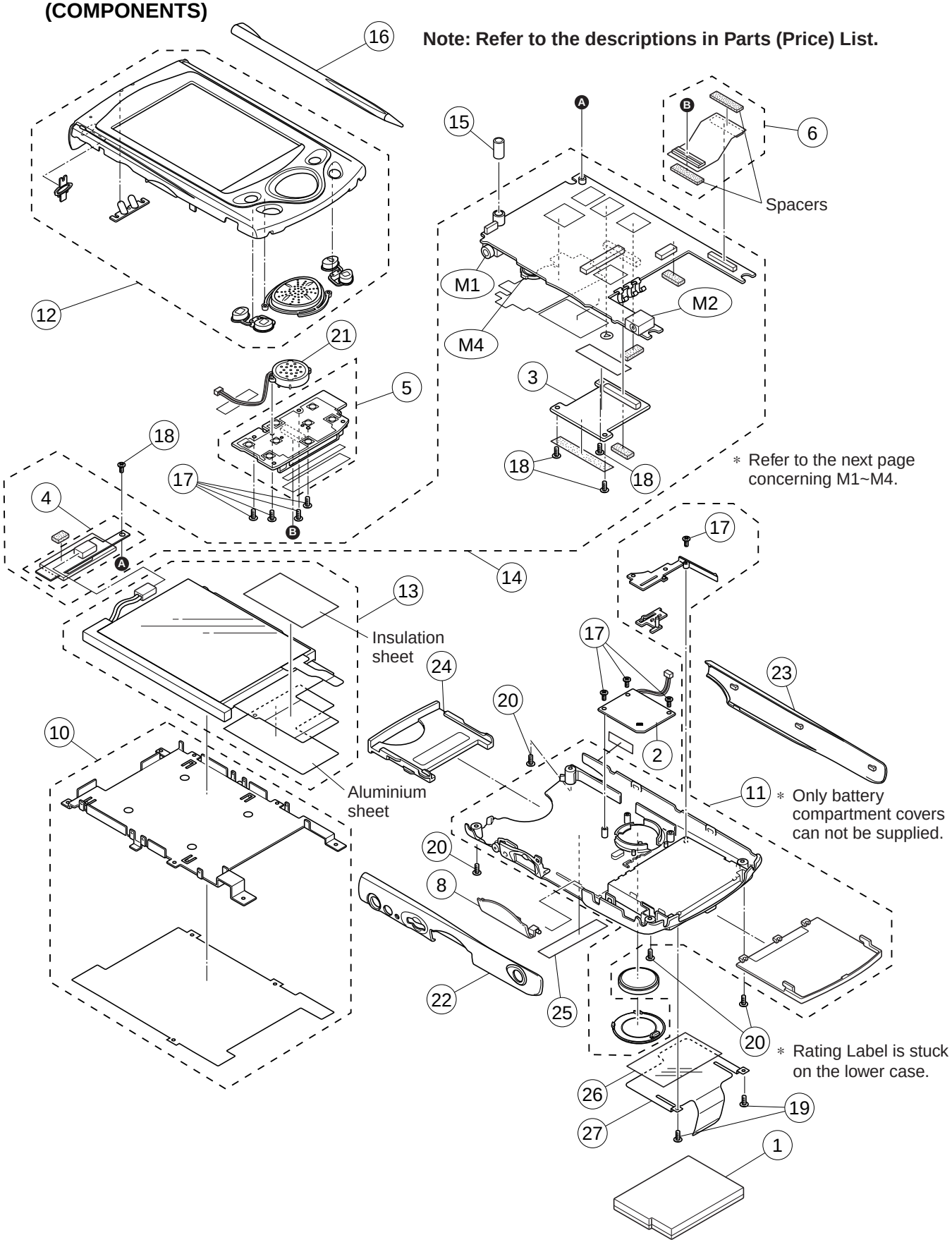
3. Insulation sheet and Aluminum sheet are NOT stuck onto LCD MODULE, PCB ASSY/BUTTON and so on described in Tentative Service Manual.

4. Generally speaking, some parts will be added to the interchanged parts compared with one described in Tentative Service Manual.

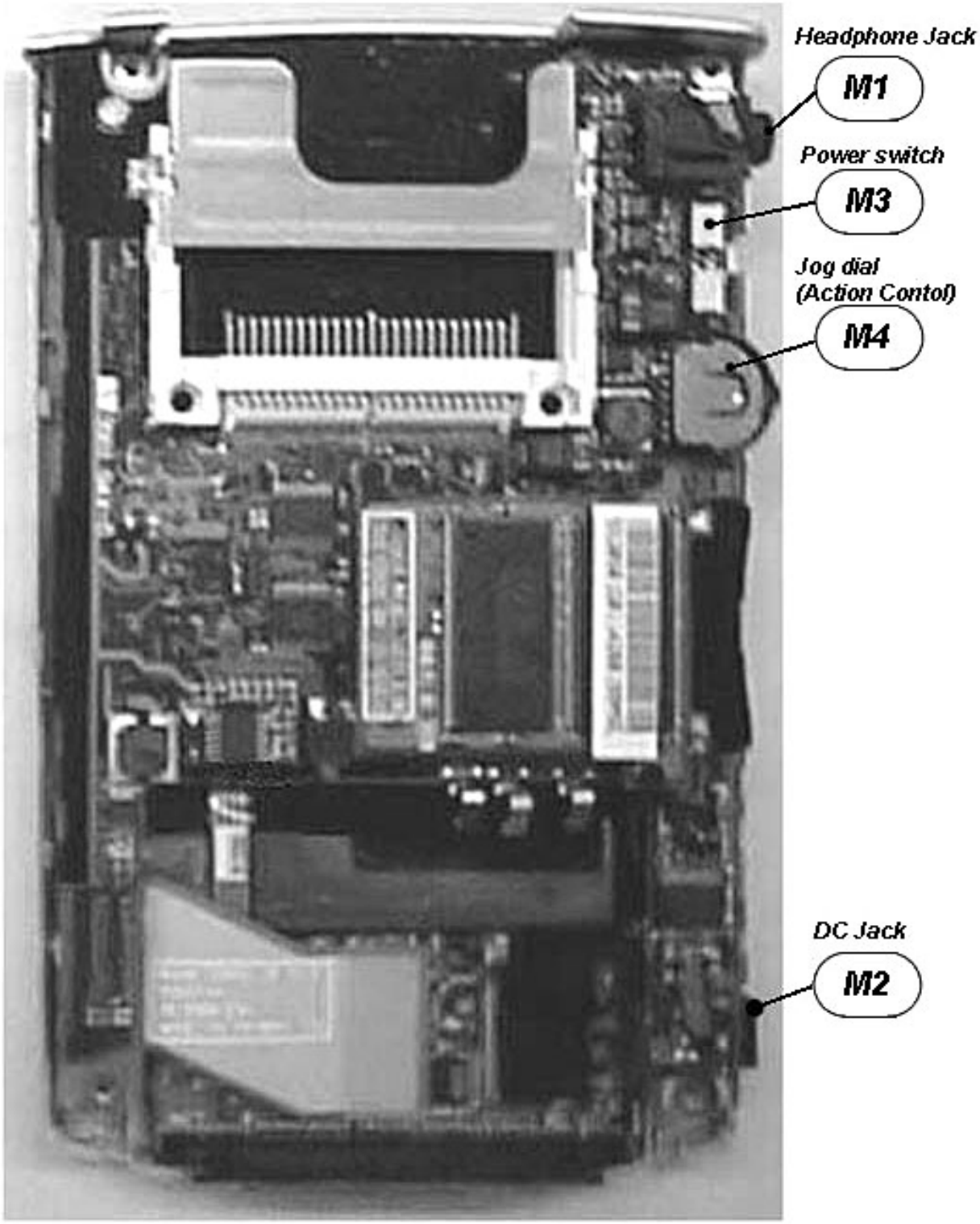
14. EXPLODED VIEW

(COMPONENTS)

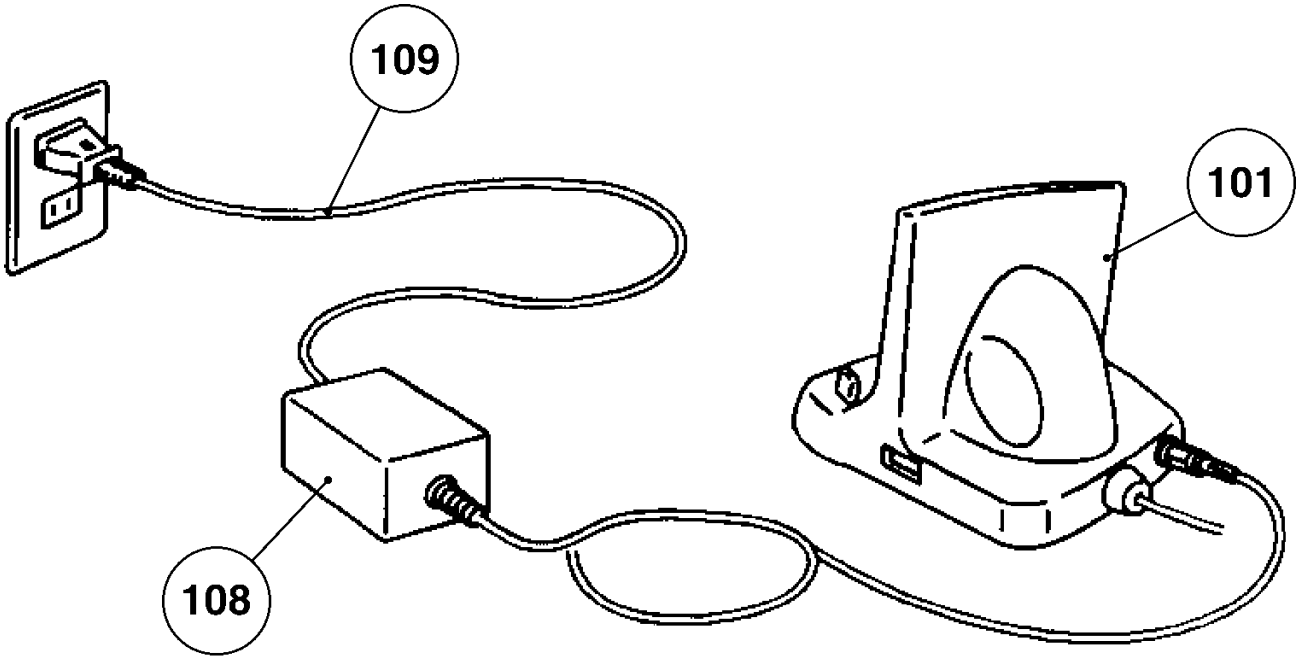
Note: Refer to the descriptions in Parts (Price) List.

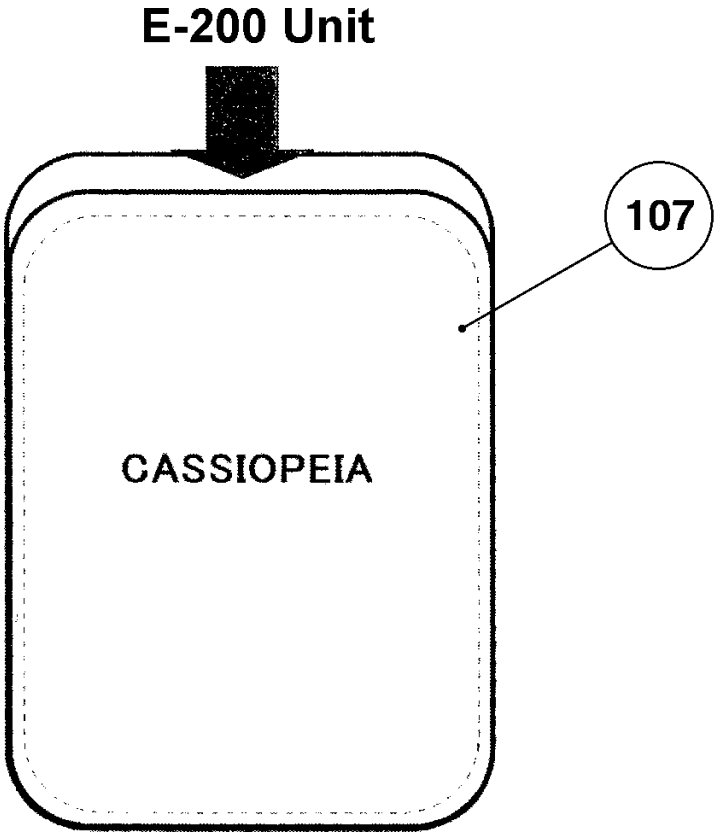


(PCB ASSY/MAIN)



(OTHERS)





Ver.1 :
- "7. DATA BACKUP" has been deleted
- Deletion of spare part (Item28) in PARTS LIST (page 42) and EXPLODED VIEW (page 45)

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